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3868

```
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```

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
Welcome to STN International
NEWS 1
                Web Page URLs for STN Seminar Schedule - N. America
NEWS
                "Ask CAS" for self-help around the clock
NEWS
        DEC 05 CASREACT(R) - Over 10 million reactions available
        DEC 14
NEWS
                2006 MeSH terms loaded in MEDLINE/LMEDLINE
        DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS
NEWS
        DEC 14 CA/CAplus to be enhanced with updated IPC codes
NEWS
        DEC 21
                IPC search and display fields enhanced in CA/CAplus with the
                IPC reform
                New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
NEWS
        DEC 23
                USPAT2
NEWS 9
                IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
        JAN 13
NEWS 10
        JAN 13
                New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
                INPADOC
NEWS 11
        JAN 17
                Pre-1988 INPI data added to MARPAT
NEWS 12 JAN 17
                IPC 8 in the WPI family of databases including WPIFV
NEWS 13 JAN 30 Saved answer limit increased
NEWS 14 JAN 31 Monthly current-awareness alert (SDI) frequency
                added to TULSA
NEWS 15
        FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist
                visualization results
NEWS 16 FEB 22 Status of current WO (PCT) information on STN
NEWS 17 FEB 22 The IPC thesaurus added to additional patent databases on STN
NEWS 18 FEB 22 Updates in EPFULL; IPC 8 enhancements added
NEWS 19 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 20 FEB 28 MEDLINE/LMEDLINE reload improves functionality
NEWS 21 FEB 28
                TOXCENTER reloaded with enhancements
NEWS 22 FEB 28 REGISTRY/ZREGISTRY enhanced with more experimental spectral
                property data
NEWS 23
        MAR 01 INSPEC reloaded and enhanced
        MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 24
NEWS 25 MAR 08 X.25 communication option no longer available after June 2006
            FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
NEWS EXPRESS
             CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0jc(JP),
             AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
             V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
             http://download.cas.org/express/v8.0-Discover/
NEWS HOURS
             STN Operating Hours Plus Help Desk Availability
NEWS INTER
             General Internet Information
NEWS LOGIN
             Welcome Banner and News Items
```

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CAS World Wide Web Site (general information)

NEWS PHONE

NEWS WWW

specific topic.

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FILE 'HOME' ENTERED AT 18:09:00 ON 08 MAR 2006

=> fil reg COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 18:09:35 ON 08 MAR 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 MAR 2006 HIGHEST RN 876109-17-0 DICTIONARY FILE UPDATES: 7 MAR 2006 HIGHEST RN 876109-17-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

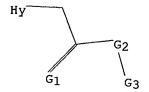
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

Uploading C:\Program Files\Stnexp\Queries\10765267amend.str



1 2

chain nodes :
1 2 3 4 5 8
chain bonds :
1-2 2-3 3-4 3-5 4-8
exact/norm bonds :
1-2 3-4 3-5 4-8
exact bonds :
2-3

G1:0,S,N

G2:0,S

G3:Ph,o-C6H4,m-C6H4,p-C6H4,Hy

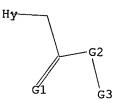
Match level:
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 8:CLASS
Generic attributes:
1:
Saturation : Saturated

Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic
Element Count :

Node 1: Limited N,N1-2 C,C4-5 O,O0-1

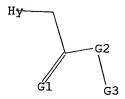
L1 STRUCTURE UPLOADED

=> d 11 L1 HAS NO ANSWERS L1 STR



G1 O,S,N G2 O,S G3 Ph,o-C6H4,m-C6H4,p-C6H4,Hy Structure attributes must be viewed using STN Express query preparation.

=> d 11 L1 HAS NO ANSWERS L1 STR



G1 O, S, N

G2 0, S

G3 Ph,o-C6H4, m-C6H4, p-C6H4, Hy

Structure attributes must be viewed using STN Express query preparation.

=> s l1 SAMPLE SEARCH INITIATED 18:10:02 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 1092423 TO ITERATE

0.2% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

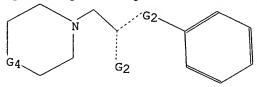
ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**

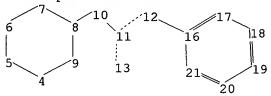
PROJECTED ITERATIONS: 21794380 TO 21902540 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

FULL FILE PROJECTIONS:

Uploading C:\Program Files\Stnexp\Queries\10765267phen152841.str





0 ANSWERS

chain nodes :
10 11 12 13
ring nodes :

4 5 6 7 8 9 16 17 18 19 20 21

chain bonds :

8-10 10-11 11-12 11-13 12-16

ring bonds :

4-5 4-9 5-6 6-7 7-8 8-9 16-17 16-21 17-18 18-19 19-20 20-21

exact/norm bonds :

4-5 4-9 5-6 6-7 7-8 8-9 8-10 10-11 11-12 11-13 12-16

normalized bonds :

16-17 16-21 17-18 18-19 19-20 20-21

G1:0,S,N

G2:0,S

G3:Ph,o-C6H4,m-C6H4,p-C6H4,Hy

G4:CH2,O,N

Match level :

4:Atom 5:Atom 6:CLASS 7:CLASS 8:Atom 9:CLASS 10:CLASS 11:CLASS 12:CLASS 16:Atom 17:Atom 18:Atom 20:Atom 21:CLASS

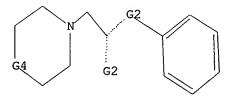
L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS

L3

STR



G1 O, S, N

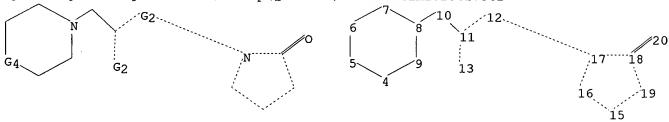
G2 O, S

G3 Ph,o-C6H4, m-C6H4, p-C6H4, Hy

G4 CH2, O, N

Structure attributes must be viewed using STN Express query preparation.

=> Uploading C:\Program Files\Stnexp\Queries\10765267clm152841.str



chain nodes :
10 11 12 13 20
ring nodes :
4 5 6 7 8 9 15 16 17 18 19
chain bonds :
8-10 10-11 11-12 11-13 12-17 18-20
ring bonds :

Page 508/03/2006

4-5 4-9 5-6 6-7 7-8 8-9 15-16 15-19 16-17 17-18 18-19 exact/norm bonds : 4-5 4-9 5-6 6-7 7-8 8-9 8-10 10-11 11-12 11-13 12-17 15-16 15-19 16-17 17-18 18-19 18-20

G1:0,S,N

G2:0,S

G3: Ph, o-C6H4, m-C6H4, p-C6H4, Hy

G4:CH2,O,N

Match level :

4:Atom 5:Atom 6:CLASS 7:CLASS 8:Atom 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:CLASS

L4STRUCTURE UPLOADED 46

=> d 14L4 HAS NO ANSWERS L4STR

G1 O, S, N

G2 0, S

G3 Ph,o-C6H4, m-C6H4, p-C6H4, Hy

G4 CH2, O, N

Structure attributes must be viewed using STN Express query preparation.

Uploading C:\Program Files\Stnexp\Queries\1076526771.str

chain nodes : 10 11 12 13 21 ring nodes :

Page 608/03/2006

. 4 5 6 7 8 9 16 17 18 19 20

chain bonds :

8-10 10-11 11-12 11-13 12-16 17-21

ring bonds :

4-5 4-9 5-6 6-7 7-8 8-9 16-17 16-20 17-18 18-19 19-20

exact/norm bonds :

4-5 4-9 5-6 6-7 7-8 8-9 8-10 11-12 11-13 12-16 16-17 16-20 17-18 17-21

18-19 19-20 exact bonds:

10-11

G1:0,S,N

G2:0,S

G3:Ph,o-C6H4,m-C6H4,p-C6H4,Hy

G4:CH2,O,N

Match level:

4:Atom 5:Atom 6:CLASS 7:CLASS 8:Atom 9:CLASS 10:CLASS 11:CLASS 12:CLASS 16:Atom 17:Atom 18:Atom 20:Atom 21:CLASS

L5 STRUCTURE UPLOADED U^2

=> d 15

L5 HAS NO ANSWERS

L5 STR

G1 O, S, N

G2 O,S

G3 Ph,o-C6H4,m-C6H4,p-C6H4,Hy

G4 CH2, O, N

Structure attributes must be viewed using STN Express query preparation.

=>

Uploading C:\Program Files\Stnexp\Queries\10765267phen71.str

$$G_2$$

chain nodes :
10 11 12 13
ring nodes :

4 5 6 7 8 9 16 17 18 19 20 21

chain bonds :

8-10 10-11 11-12 11-13 12-16

ring bonds :

4-5 4-9 5-6 6-7 7-8 8-9 16-17 16-21 17-18 18-19 19-20 20-21

exact/norm bonds :

4-5 4-9 5-6 6-7 7-8 8-9 8-10 11-12 11-13 12-16

exact bonds :

10-11

normalized bonds :

16-17 16-21 17-18 18-19 19-20 20-21

G1:0, S, N

G2:0,S

G3: Ph, o-C6H4, m-C6H4, p-C6H4, Hy

G4:CH2,O,N

Match level :

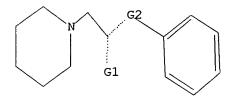
4:Atom 5:Atom 6:CLASS 7:CLASS 8:Atom 9:CLASS 10:CLASS 11:CLASS 12:CLASS 16:Atom 17:Atom 18:Atom 20:Atom 21:CLASS

L6 STRUCTURE UPLOADED

=> d 16

L6 HAS NO ANSWERS

L6 STR



G1 O, S, N

G2 0, S

G3 Ph,o-C6H4,m-C6H4,p-C6H4,Hy

G4 CH2, O, N

Structure attributes must be viewed using STN Express query preparation.

Page 808/03/2006

=> s 13

SAMPLE SEARCH INITIATED 18:22:14 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 3900 TO ITERATE

51.3% PROCESSED 2000 ITERATIONS

12 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

74255 TO 81745

178 TO 758 PROJECTED ANSWERS:

12 SEA SSS SAM L3 L7

=> s 13 full

FULL SEARCH INITIATED 18:22:20 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 78363 TO ITERATE

100.0% PROCESSED 78363 ITERATIONS 605 ANSWERS

SEARCH TIME: 00.00.01

605 SEA SSS FUL L3

=> s 14

SAMPLE SEARCH INITIATED 18:22:34 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 13 TO ITERATE

100.0% PROCESSED 13 ITERATIONS 1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 44 TO 476

PROJECTED ANSWERS: 1 TO 80

L91 SEA SSS SAM L4

=> s 14 full

FULL SEARCH INITIATED 18:22:40 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 267 TO ITERATE

100.0% PROCESSED 267 ITERATIONS 24 ANSWERS

SEARCH TIME: 00.00.01

L1024 SEA SSS FUL L4

=> s 14

SAMPLE SEARCH INITIATED 18:22:53 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 13 TO ITERATE

13 ITERATIONS 100.0% PROCESSED 1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 44 TO 476

PROJECTED ANSWERS: 1 TO 1 SEA SSS SAM L4

=> s 15

SAMPLE SEARCH INITIATED 18:23:01 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -16 TO ITERATE

100.0% PROCESSED 16 ITERATIONS 2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 80 TO 560 PROJECTED ANSWERS: 2 TO 124

T.12 2 SEA SSS SAM L5

=> s 15 full

FULL SEARCH INITIATED 18:23:06 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 312 TO ITERATE

100.0% PROCESSED 312 ITERATIONS 16 ANSWERS

SEARCH TIME: 00.00.01

L13 16 SEA SSS FUL L5

=> s 16

SAMPLE SEARCH INITIATED 18:23:16 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 2849 TO ITERATE

70.2% PROCESSED 2000 ITERATIONS 9 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 53779 TO 60181 PROJECTED ANSWERS: · 42 TO 470

L149 SEA SSS SAM L6

=> s 16 full

FULL SEARCH INITIATED 18:23:20 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 56321 TO ITERATE

100.0% PROCESSED 56321 ITERATIONS 342 ANSWERS

SEARCH TIME: 00.00.01

L15342 SEA SSS FUL L6

=> fil hcaplus

COST IN U.S. DOLLARS SINCE FILE TOTAL

SESSION ENTRY

FULL ESTIMATED COST 676.56 676.77

FILE 'HCAPLUS' ENTERED AT 18:23:48 ON 08 MAR 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

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Page 1008/03/2006

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FILE COVERS 1907 - 8 Mar 2006 VOL 144 ISS 11 FILE LAST UPDATED: 7 Mar 2006 (20060307/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 18 L16 143 L8 => s l16 and (isotop?) 321646 ISOTOP? L17 3 L16 AND (ISOTOP?)

=> d ed abs ibib hitstr 1-3

The synthesis of a range of novel bidentate, e.g., I (R = alkyl or alkylaminocarbonylmethyl), and hexadentate ligands containing the chelating moiety 3-hydroxy-2(1H)-pyridinone is described. The pKa values of the ligands and the stability consts. of their iron(III) complexes were determined The stability constant of the iron(III) complex of one of the hexadentate ligands is comparable to that of desferrioxamine B. The distribution coeffs. of the ligands and their iron(III) complexes were also determined One of the novel hexadentate compds. markedly enhanced iron(III) excretion from both hepatocytes and iron-overloaded mice.

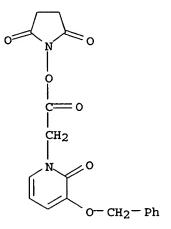
IT 95215-73-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, with amines)

RN 95215-73-9 HCAPLUS

CN 2,5-Pyrrolidinedione, 1-[[[2-oxo-3-(phenylmethoxy)-1(2H)pyridinyl]acetyl]oxy]- (9CI) (CA INDEX NAME)



L8 ANSWER 20 OF 29 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1990:7937 HCAPLUS

DOCUMENT NUMBER: 112:7937

TITLE: Preparation and testing of tripeptide derivatives as

cardiovascular agents

INVENTOR(S): Sawayama, Tadahiro; Nishimura, Kazuya; Deguchi,

Takashi

PATENT ASSIGNEE(S): Dainippon Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

Grazier 10_765267

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------|----------|-----------------|----------|
| | | | | |
| JP 01125357 | A2 | 19890517 | JP 1987-281873 | 19871106 |
| PRIORITY APPLN. INFO.: | | | JP 1987-281873 | 19871106 |
| OTHER SOURCE(S): | MARPAT | 112:7937 | | |
| GI | | | | |

$$Q^{2} = -(CH_{2})_{m}N$$

$$Q^{1} = -(CH_{2})_{m}N$$

$$Q^{1} = -(CO_{2}R^{2})$$

$$Q^{2} = -(CO_{2}R^{2})$$

$$Q^{3} = -(CO_{2}R^{2})$$

RR1CHCONHCH(CO2R2)(CH2)2COR3 [I; R = H, lower alkyl, PhCH2; R1 = AΒ (NH)m(CH2)nW, Q; R2 = H, lower alkyl; R3 = Q1, Q2, Q3, NR4CHR2CO2R2; W = H, CO2H, NH2, OH; Y = H, lower alkyl, Ph, PhCH2; R4 = C4-8 cycloalkyl, halo, alkoxy, (OH-substituted) Ph; m = 0, 1; n = 0-4] and their salts are prepared Refluxing 28 g 2-(S)-bromopropionic acid with 42 g PhCH2OH in PhMe gave 17.0 g benzyl 2-(S)-bromopropionate, 2.2 g of which was stirred with 1.6 g 1-benzylpiperazine in MeCN, then hydrolyzed with aqueous NaOH to give 1.0 g 2-(R)-(4-benzylpiperazinyl) propionic acid (II). Then, 24.5 g N-benzyloxycarbonyl-O1-ethyl-D-glutamic acid was stirred with 17.5 g Et (2S, 3aS, 7aS)-octahydro-1H-indole-2-carboxylate-HCl in CH2Cl2, then reduced, and then hydrolyzed with aqueous NaOH to give 15.01 g (2S, 3aS, 7aS)-1-(γ-D-qlutamyl)octahydro-1H-indole-2-carboxylic acid (III). Then, 0.8 g II was treated with 0.4 g N-hydroxysuccinimide in CHCl3 to give 2-(R)-(4-benzylpiperazinyl)propionic acid N-hydroxysuccinimide ester, which was treated with 1.0 g III in THF to give 0.8 g (2S, 3aS, 7aS) -1- $[N-2(R) - (4-benzylpiperazinyl) propionyl] -\gamma-D$ glutamyl]octahydro-1H-indole-2-carboxylic acid, 0.4 g of which was refluxed with HCO2H in MeOH in the presence of Pd black for 4 h to give 0.2 g (2S, 3aS, 7aS)-1-[N-(2R)-piperazinylpropionyl)- γ -Dglutamyl]octahydro-1H-indole-2-carboxylic acid, which showed an IC50 of 2.1 + 10-7 M against angiotensin converting enzyme. IT 124078-64-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and condensation of, with (glutamyl)indolecarboxylic acid)

Absolute stereochemistry.

HCAPLUS COPYRIGHT 2006 ACS on STN ANSWER 21 OF 29

ACCESSION NUMBER:

1989:589581 HCAPLUS

DOCUMENT NUMBER:

111:189581

TITLE:

Morpholinoalkylcarboxylates as plant growth regulators

and fungicides

INVENTOR(S):

Ballschuh, Detlef; Banasiak, Lothar; Gruenzel,

Hermann; Kluge, Eberhard; Lyr, Horst; Ohme, Roland; Rusche, Jochen; Seibt, Horst; Spengler, Dieter;

Stoeckel, Christian

PATENT ASSIGNEE(S):

Akademie der Landwirtschaftwissenschaften der DDR, Institut fuer Pflanzenschutzforschung, Ger. Dem. Rep.

SOURCE:

GI

Ger. (East), 28 pp. CODEN: GEXXA8

DOCUMENT TYPE:

Patent German

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------|------------|-----------------|----------|
| | | | | |
| DD 263688 | A1 | 19890111 | DD 1985-278326 | 19850705 |
| PRIORITY APPLN. INFO.: | | | DD 1985-278326 | 19850705 |
| OTHER SOURCE(S): | MARPAT | 111:189581 | | |

Me Me Me
$$R^{2}COZR^{3}$$
 X^{-} O $R^{2}COZR^{3}$ X^{-} $R^{2}COZR^{3}$ X^{-} $R^{2}COZR^{3}$ X^{-}

AΒ Mixts. of the title compds. I and II [R1 = C6-20; R2 = C1-6 alkylene; R3 = (un)substituted alkyl, alkenyl, cycloalkyl, etc.; Z = 0, S; X- = anion]

L8 ANSWER 24 OF 29 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1987:156487 HCAPLUS

DOCUMENT NUMBER:

106:156487

TITLE:

Salts of morpholinocarboxylic esters and

morpholinoalkyl phenyl ethers, processes for their preparation, and their use as fungicides and plant

growth regulators.

INVENTOR(S):

Banasiak, Lothar; Leuner, Brita; Lyr, Horst; Nega,

Eva; Sunkel, Marianne

PATENT ASSIGNEE(S):

Institut fuer Pflanzenschutzforschung Kleinmachnow,

Ger. Dem. Rep.

SOURCE:

Eur. Pat. Appl., 41 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

LANGUAGE:

Patent German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|-----------|-----------|-----------------|----------|
| EP 209763 | A1 | 19870128 | EP 1986-108916 | 19860701 |
| R: AT, BE, CH, | DE, FR | , GB, IT, | LI, LU, NL, SE | |
| DD 263685 | A1 | 19890111 | DD 1985-278323 | 19850705 |
| DD 263687 | A1 | 19890111 | DD 1985-278325 | 19850705 |
| AU 8659401 | A1 | 19870108 | AU 1986-59401 | 19860630 |
| DK 8603151 | Α | 19870106 | DK 1986-3151 | 19860702 |
| FI 8602851 | A | 19870106 | FI 1986-2851 | 19860704 |
| ZA 8605002 | Α | 19870325 | ZA 1986-5002 | 19860704 |
| JP 62084065 | A2 | 19870417 | JP 1986-156349 | 19860704 |
| HU 42288 | A2 | 19870728 | HU 1986-2826 | 19860704 |
| HU 42286 | A2 | 19870728 | HU 1986-2827 | 19860704 |
| ES 2001853 | A6 | 19880701 | ES 1986-125 | 19860704 |
| PL 146362 | B1 | 19890131 | PL 1986-260474 | 19860704 |
| CS 264279 | B2 | 19890613 | CS 1986-5135 | 19860707 |
| PRIORITY APPLN. INFO.: | | | DD 1985-278323 | 19850705 |
| | | | DD 1985-278325 | 19850705 |

GI

Me
$$R^1$$
 X^-
Me I

AB The title compds. [I; R = C6-20 alkyl; R2 = R3Z1CO, (un) substituted PhO; R3 = (halo) alkenyl, alkynyl, (un) substituted alkyl, cycloalkyl, aryl, aralkyl; X1 = anion of a nonphytotoxic acid; Z = O, S; Z1 = C1-6 alkylene; R3 and X- may be absent} were prepared as fungicides and plant growth regulators. A mixture of 30 g 4-isotridecyl-2,6-dimethylmorpholine and 10.9 g ClCH2CO2Me was refluxed 20 h in MeCN containing catalytic NaI to give 38 g I (R1 = isotridecyl, R2 = CO2Me, X = Cl, Z = CH2)(II). At 10 μg/mL II gave 88% inhibition of growth of Botrytis cinerea. At 1000 mg/L II reduced the growth of cucumber plants by 32%.

IT 107562-00-5DP, quaternary derivs. 107562-11-8DP,

quaternary derivs.

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as fungicide and plant growth inhibitor)

RN 107562-00-5 HCAPLUS

CN 4-Morpholineacetic acid, 2,6-dimethyl-, 4-nitrophenyl ester (9CI) (CA INDEX NAME)

RN 107562-11-8 HCAPLUS

CN 4-Morpholineacetic acid, 2,6-dimethyl-, 2,6-dibromo-4-nitrophenyl ester (9CI) (CA INDEX NAME)

Me N—
$$CH_2$$
— C — O
Br
NO₂

L8 ANSWER 25 OF 29 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1985:596001 HCAPLUS

DOCUMENT NUMBER: 103:196001

TITLE: Hydroxypyridinone derivatives and pharmaceutical

compositions containing them

INVENTOR(S): Hider, Robert Charles; Kontoghiorghes, George; Silver,

ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN Entered STN: 08 Jul 2005

AB Isotopically enriched N-substituted piperazines (I) or salts thereof, comprising one or more heavy atom isotopes (Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or fluorine atoms: Z = independently comprise linked hydrogen, deuterium or fluorine atoms: Z = independently H. F. C1. Br.; iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H or F atoms, a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted or unsubstituted aryl group each independently comprise linked hydrogen or fluorine atoms), or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group each independently comprise linked hydrogen or fluorine atoms: wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms: wherein the N-methylpiperazine is isotopically enriched with either of 13C and/or 15N) are prepared N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents can be used as intermediates in the synthesis of active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents can be used to label analytes such as peptides, proteins, amino acids, oligonucleotides, DNA, NNA, lipids, carbohydrates, steroids, small mols, and the like (no data). Thus, to a stirring solution of 1.18 g (11.83 mmol) N-methylpiperazine in 15 mL toluene at room temperature was added 1 g (5.91 mmol) of 8t bromoacetate-1,2-13C dropwise, over a period of 15 min. The reaction m

L17 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

857503-00-5 HCAPLUS 1-Piperazineacetic acid, 4-methyl-, pentachlorophenyl ester (9CI) (CA INDEX NAME)

857503-01-6 HCAPLUS

1-Piperazineacetic acid, 4-methyl-, 4-nitrophenyl ester (9CI) (CA INDEX NAME)

-сн2-

857503-03-8 HCAPLUS

1-Piperazineacetic acid, 4-methyl-, 3-mitrophenyl ester (9CI) (CA INDEX NAME)

ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on 5TN LY ACC. NUM. COUNT: 6 (Continued)

| PAT | TENT | NO. | | | KIN | | DATE | | | | ICAT | | | | | ATE | |
|----------|------------|-------|------|-----|-----|-----|------|------|-----|-------|------|------|------|------|-----|------|-----|
| | | | | | | | | | | | | | | | | | |
| US | 2005 | 1487 | 73 | | A1 | | 2005 | 0707 | | US 2 | 004- | 7513 | 88 | | 2 | 0040 | 105 |
| VO | 2005 | 0684 | 46 | | A1 | | 2005 | 0728 | | WO 2 | 005- | US22 | 3 | | 2 | 0050 | 105 |
| | W: | AE. | AG, | AL. | AM. | AT. | AU, | AZ. | BA. | BB. | BG. | BR. | BW. | BY. | BZ. | CA. | CH. |
| | - | | | | | | DE, | | | | | | | | | | |
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| | TJ, TM, TI | | | | | TT, | TZ, | UA, | UG, | ΨS, | υZ, | vc, | W, | YU, | ZA, | ZM, | ZW |
| | RV: | BW. | GH, | GM, | KE. | LS. | MV. | MZ, | NA. | SD. | SL, | SZ, | TZ, | UG, | ZM, | ZW. | AM. |
| | | AZ. | BY. | KG. | KZ. | MD. | RU. | TJ. | TM. | AT. | BE. | BG. | CH. | CY. | CZ. | DE. | DK. |
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| PRIORITY | | | | | 10, | 10 | | | | | 004- | 7512 | E31. | | | 0040 | 105 |
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| | | | | | | | | | | US 2 | 004- | 7513 | 88 | - 4 | A 2 | 0040 | 105 |
| | | | | | | | | | | US 2 | 004- | 8226 | 39 | - 1 | A 2 | 0040 | 412 |
| | | | | | | | | | | 11e 2 | 004 | 0577 | 30 | | | 0040 | 524 |

OTHER SOURCE(S): MARPAT 143:115574

IT 855187-95-6, 4-Methylpiperazine-1-acetic acid phenyl ester
RL: RCT (Reactant): RACT (Reactant or reagent)
(preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents)

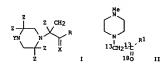
RN 855187-95-6 HCAPIUS

CN 1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)

IT

857027-10-2P 857503-00-5P 857503-01-6P 857503-03-8P RL: SPN (Synthetic preparation), PREP (Preparation) (preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents) 857027-10-2 HCAPLUS 1-

ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN Entered STN: 08 Jul 2005



AB In some embodiments, this invention pertains to active esters of N-substituted piperazine acetic acid I (R = leaving group; X = O, S; Y = C1-C6 alkyl - C1-C6 alkyl ether Z = R, ZH, F, C1, Br, iodide, amino acid side chain, C1-C6 alkyl, C1-C6 alkyl ether), including isotopically enriched versions thereof. In some embodiments, this invention pertains to methods for the preparation of active esters of N-substituted piperazine acetic acid, including isotopically enriched versions thereof. For example, the isotopically enriched versions thereof. For example, the isotopically acid ester of N-hydroxysuccinimide to give the succinate II (R1 = OR2, R2 = succinaido).

ACCESSION NUMBER: 2005:59129 HCAPLUS
DOCUMENT NUMBER: 143:97398
TITLE: Preparation of active esters of N-substituted piperazine actic acid.

2005:592129 HCAPLUS
143:97398
Preparation of active esters of N-substituted piperaxine acetic acids, including isotopically enriched versions
Dey, Subhakar; Pappin, Darryl J. C.; Purkayastha, Subhasish Pillai, Sasi; Coull, James M. Applera Corp., USA
U.S. Pat. Appl. Publ., 33 pp.
CODEN: USXXCO
Patent
English
6

INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

FAMILY ACC: NUM. COUNT: PATENT INFORMATION:

| 1 | PAT | ENT | NO. | | | KIN | D | DATE | | | APPL | ICAT | ION | NO. | | D | ATE | |
|-----|-----|-------|------|-----|-----|-----|-----|------|------|-----|------|-------|------|-----|-----|-----|------|-----|
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| - 1 | US | 2005 | 1487 | 71 | | A1 | | 2005 | 0707 | | US 2 | 004- | 7513 | 54 | | 20 | 0040 | 105 |
| 1 | 10 | 2005 | 0684 | 46 | | A1 | | 2005 | 0728 | | WO 2 | 005-1 | US22 | 3 | | 20 | 0050 | 105 |
| | | W: | AE, | AG, | AL, | AH, | AT, | AU, | AZ. | BA. | BB. | BG. | BR. | BW. | BY. | BZ. | CA. | CH. |
| | | | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, |
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| | | RW: | BW. | GH, | GM, | ΚE, | LS, | MW, | MZ, | NA. | SD, | SL, | 52, | TZ, | UG, | ZM, | ZW, | AM, |
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10765267Amend

L17 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS ON STN OTHER SOURCE(S): MARPAT 143:97398 IT 856187-95-6 (Continued)

856187-95-6
RL: RCT (Reactant), RACT (Reactant or reagent)
(preparation of active esters of N-substituted piperazine acetic acids and their labeled derivs.)
856187-95-6 RCAPBUS
1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)

L17 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS ON STN FAMILY ACC. NUM. COUNT: 6 PATENT INFORMATION: (Continued)

| | | | NO. | | | | | | | | | ICAT | | | | | ATE | |
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| | US | 2005 | 1487 | 74 | | A1 | | 2005 | 0707 | | IIS 2 | 004- | 7513 | 97 | | 2 | 0040 | 105 |
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| | | RW: | B₩, | GH, | GM, | ΚE, | LS, | MW, | ΜZ, | NA, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ZW, | AM, |
| | | | AZ, | BY, | KG. | KZ. | MD. | RU, | TJ. | TM. | AT. | BE, | BG. | CH. | CY. | CZ. | DE. | DK. |
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| KIO | HITY | APP | LN. | INFO | . : | | | | | | | 004- | | | | A 2 | JO40' | 105 |
| | | | | | | | | | | 1 | US 2 | 004- | 7513 | 54 | | A 2 | 0040 | 105 |
| | | | | | | | | | | 1 | US 2 | 004- | 7513 | 87 | | A 2 | 0040 | 105 |
| | | | | | | | | | | | us 2 | 004~ | 7513 | 99 | | A 2 | 0040 | 105 |
| | | | | | | | | | | | | 004- | | | | | | |
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| | | | | | | | | | | | US 2 | 004- | 8527 | 30 | | A 2 | JU40: | 524 |
| | | | (5): | | | | | | | | | | | | | | | |
| 7 | 856 | 187- | 95-6 | , 4- | Meth | ylpi | pera | zine | -1-a | ceti | c ac | id p | heny | l es | ter | | | |
| | | | (Re | | | | | | | | | | | | _ | | | |
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RM: NLT (Reactant) FACT (Reactant or reagent)
(preparation of isotopically enriched H-substituted
piperazine-1-acetic acids as isobaric labeling reagents)
856187-95-6 HCAPLUS
1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)

ΙT

857027-10-2P 857503-00-5P 857503-01-6P 857503-03-8P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents) 857027-10-2 RCAPUS 1-Piperazinacetic acid, 4-methyl-, pentafluorophenyl ester (9CI) (CA INDEX NAME)

RN 857503-00-5 HCAPLUS

Page 1308/03/2006

ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN Entered STN: 08 Jul 2005

$$\begin{array}{c|c} z & z \\ \hline y - N & z \\ \hline z & z \\ \hline z & X \end{array} XH$$

AB Isotopically enriched N-substituted piperazine-1-acetic acids
(1) or salts thereof, comprising one or more heavy atom isotopes
(X = 0, S; Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether
group wherein the carbon atoms of the alkyl group or alkyl ether group
each independently comprise linked hydrogen, deuterium or F atoms; Z =
independently H, deuterium, F, C1, Br, iodine, an amino acid side chain, a
straight chain or branched C1-6 alkyl group that may optionally contain a
substituted or unsubstituted aryl group (wherein the carbon atoms of the
alkyl and aryl groups each independently comprise linked H, deuterium or F
atoms), a straight chain or branched C1-6 alkyl ether group that may
optionally contain a substituted or unsubstituted aryl group wherein the
carbon atoms of the alkyl and aryl groups each independently comprise
linked H, deuterium or F atoms, or a straight chain or branched C1-6
alkoxy group that may optionally contain a substituted or unsubstituted
aryl group (wherein the carbon atoms of the alkyl and aryl groups each
independently comprise linked H, deuterium or F atoms) are prepared
N-substituted piperazines can be used as intermediates in the synthesis of
N-substituted piperazine acetic acids which in turn can be used as
intermediates in the synthesis of active esters of N-substituted
piperazine acetic acid. The scrive esters of N-substituted
piperazine acetic acid. The active esters of N-substituted
piperazine acetic acid. The active esters of N-substituted
piperazine acetic acid. The active esters of N-substitut

2005:588426 HCAPLUS
143:11556
Preparation of isotopically enriched
N-substituted piperazine-1-acetic acids
Dey, Subhakarr Pappin, Darryl J. c.; Purkayastha,
Subhasish; Pillai, Sasi; Coull, James M.
Applera Corp., USA
U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXMCO INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: Patent English

L17 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN 1-Piperazineactic acid, 4-methyl-, pentachlorophenyl ester (9CI) (CA
INDEX NAME)

857503-01-6 HCAPLUS 1-Piperazineacetic acid, 4-methyl-, 4-nitrophenyl ester (9CI) (CA INDEX NAME)

857503-03-8 HCAPLUS 1-Piperazineacetic acid, 4-methyl-, 3-nitrophenyl ester (9CI) (CA INDEX

- 10765267Amend
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ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN Entered STN: 08 Jul 2005

$$Y-N$$
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AB Isotopically enriched N-substituted piperazines (I) or salts thereof, comprising one or more heavy atom isotopes (Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or fluorine atoms; Z = independently H, F, C1, Br, iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H or F atoms, a straight chain or branched C1-6 alkyl ether group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms), or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group; wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms; or a straight chain or branched C1-6 alkoxy group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms; wherein the N-methylpiperazine is instopically enriched with either of 13C and/or 15M) are prepared N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine in the synthesis of Active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid. The active esters of Substituted piperazine acetic acid acid Et esters. 1,2-13C disputation of 1.18 g (11.83 mmol) N-methylpip

L18 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

●2 HC1

856187-87-69 856188-06-29 857027-09-99
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents)
856187-87-6 HCAPLUS
2.5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-180]oxy]- (9CI)
(CA INDEX NAME)

856188-06-2 HCAPLUS 2.5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

2-Pyrrolidinone, 1-{[(4-methyl-1-piperazinyl)acetyl]oxy}- (9CI) (CA INDEX NAME)

LIB ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN PATENT INFORMATION: (Continued)

| P | ATENT | NO. | | | KIN | D | DATE | | | APPL | ICAT | ION | NO. | | D | ATE | |
|--------|--------|------|------|-----|-----|-----|------|------|-----|-------|-------------|------|-----|-----|-----|------|-----|
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| U | S 2005 | 1487 | 73 | | A1 | | 2005 | 0707 | | US 2 | 004- | 7513 | 88 | | 2 | 0040 | 105 |
| v | 0 2005 | | | | | | 2005 | | | | | | | | | 0050 | |
| | W: | | | | | | AU, | | | | | | | | | | |
| | | | | | | | DE, | | | | | | | | | | |
| | | | | | | | ID, | | | | | | | | | | |
| | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MV, | ΜX, | MZ, | NA, | NI, |
| | | | | | | | PL, | | | | | | | | | | |
| | | ΤJ, | TM, | TN, | TR, | TT, | TZ, | UA, | UG, | US, | υz, | ٧C, | ٧N, | Yυ, | ZA, | ZM, | ZW |
| | RW: | BW, | GH, | GM, | ΚE, | LS, | MV, | ΜZ, | NA, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ΖV, | AH, |
| | | ΑZ, | BY, | KG, | ΚŻ, | MD, | RU, | ΤJ, | TM, | ΑT, | BE, | BG, | CH, | CY, | CZ, | DΕ, | DK, |
| | | EE, | ES, | FI, | FR, | GB, | GR, | HU, | ΙE, | IS, | IT, | LT, | LU, | MC, | NL, | PL, | PΤ, |
| | | RO, | SE, | SI, | SK, | TR, | BF, | ΒJ, | CF, | CG, | CI, | CΚ, | GΑ, | GN, | GQ, | GW, | ML, |
| | | MR, | NE, | SN, | TD, | TG | | | | | | | | | | | |
| PRIORI | TY APP | LN. | INFO | .: | | | | | | US 2 | DO4- | 7513 | 53 | - 1 | A 2 | 0040 | 105 |
| | | | | | | | | | | US 2 | | | | - 1 | | 0040 | |
| | | | | | | | | | | US 2 | DO4- | 7513 | 87 | | | 0040 | |
| | | | | | | | | | | US 2 | 004~ | 7513 | 88 | - 2 | A 2 | 0040 | 105 |
| | | | | | | | | | | US 2 | 004- | 8226 | 39 | | | | |
| | | | | | | | | | | US 21 | 004- | 8527 | 30 | - 1 | A 2 | 0040 | 524 |
| | | | | | | | | | | | | | | | | | |

OTHER SOURCE(S): IT 856188-20-0P MARPAT 143:115574

Bootsbe-zo-op RL: ARG (hanlytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents) 956188-20-0 RCAPUS

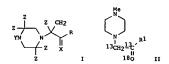
25.5-Pyrrolidinedione, 1-[((4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

856188-16-4P

BS0188-16-4P
RE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents)
856188-16-4 HCAPLUS
2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-180]oxy]-,
dihydrochloride (9CI) (CA INDEX NAME)

ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN Entered STN: 08 Jul 2005



AB In some embodiments, this invention pertains to active esters of N-substituted piperazine acetic acid I (R - leaving group: X - O, S; Y - C1-C6 alkyl, C1-C6 alkyl ether; Z - H, ZH, F, Cl, Br, iodide, amino acid side chain, C1-C6 alkyl, C1-C6 alkyl ether), including isotopically enriched versions thereof. In some embodiments, this invention pertains to methods for the preparation of active esters of N-substituted piperazine acetic acid, including isotopically enriched versions thereof. For example, the isotopically labeled N-methylpiperazine II (R1 = 100H) reacted with the trifluoroacetic acid ester of N-hydroxysuccinimide to give the succinate II (R1 = ONZ, N2 = succinimido).

ACCESSION NUMBER: 1043:97398

TITLE: 2005:592129 HCAPLUS

DOCUMENT NUMBER: 143:97398

Preparation of active esters of N-substituted piperazine acetic acids, including isotopically enriched versions

INVENTOR(S): Dey, Subhakar: Pappin, Darryl J. C.; Purkayastha, Subhasish: Pillal, Sasi Coull, James M.

ASURCE: CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: Patent

English

FMILY ACC. NUM. COUNT: 6

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| US | 2005 | 1487 | 71 | | A1 | | 2005 | 0707 | 1 | US 2 | 004- | 7513 | 54 | | 2 | 0040 | 105 |
| NO : | 2005 | 0684 | 46 | | A1 | | 2005 | 0728 | 1 | ¥O 2 | 005- | J522 | 3 | | 2 | 0050 | 105 |
| | W: | AE, | AG. | AL. | AM. | AT. | AU, | AZ. | BA. | BB. | BG. | BR. | BW. | BY. | BZ. | CA. | CH. |
| | | | | | | | DE, | | | | | | | | | | |
| | | | | | | | ID, | | | | | | | | | | |
| | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK. | MN, | MW. | MX, | MZ. | NA. | NI. |
| | | | | | | | PL, | | | | | | | | | | |
| | | TJ, | TM, | TN, | TR, | TT, | TZ, | UA, | UG, | US, | UZ, | VÇ, | VN, | YU, | ZA, | ZM, | ZW |
| | RW: | BW, | GH, | GM, | KE, | LS, | MW, | MZ, | NA, | SD, | SL, | SZ, | TZ, | UĢ, | ZM, | ZV. | AM, |
| | | AZ, | BY, | KG, | ΚZ, | MD, | RU, | ŦJ, | TM, | AT, | BE, | BG, | CH, | CY, | CZ, | DE, | DK, |
| | | EE, | ES, | FI, | FR, | GB, | GR, | ΗU, | ΙE, | IS, | IT. | LT, | LU, | MC, | NL, | PL, | PT, |
| | | RO, | SE, | SI, | SK, | TR, | BF, | ВJ, | CF, | CG, | CI, | CM, | GA, | GN, | GQ, | G₩, | ML, |
| | | MR, | NE, | SN, | TD, | TG | | | | | | | | | | | |
| PRIORITY | APP | LN. | I NFO | .: | | | | | - 1 | US 2 | 004- | 7513 | 53 | | A 2 | 0040 | 105 |
| | | | | | | | | | - 1 | US 2 | 004- | 7513 | 54 | | A 2 | 0040 | 105 |
| | | | | | | | | | - 1 | US 2 | 004- | 7513 | 97 | | A 2 | 0040 | 105 |
| | | | | | | | | | - 1 | US 2 | 004- | 7513 | 8 8 | | A 2 | 0040 | 105 |
| | | | | | | | | | | | | | | | | | |

US 2004-822639 US 2004-852730

A 20040412 A 20040524

MARPAT 143:97398 OTHER SOURCE(S):

L18 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN IT 856187-87-69 856188-06-29 856188-16-49 856188-20-09 (Continued)

usoles-20-UP RL: IMP (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(Preparation)
(preparation of active esters of N-substituted piperazine acetic acids and
their labeled derivs.)
856187-87-6 HCAPLUS
2,5-Pyrcolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-180]oxy]- (9CI)
(CA INDEX NAME)

856188-06-2 HCAPLUS 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

856188-16-4 HCAPLUS 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperaziny1)acetyl-13C2-180]oxy]-, dihydrochloride (9C1) (CA INDEX NAME)

●2 HC1

856188-20-0 HCAPLUS 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-180]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

L18 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
B This invention pertains to mixts, of isobarically labeled analytes and fragment ions thereof.
ACCESSION NUMBER: 2005:592027 HCAPLUS

DOCUMENT NUMBER: TITLE:

of.
2005:592027 HCAPLUS
143:93642 Mixtures of isobarically labeled analytes and
fragments ions derived therefrom
Pappin, Darryl J. C.; Purkayastha, Subhasish, Coull,
James H.
Applera Corp., USA
U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S.
CODEN: USXXCO
Patent USXXCO INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| PA* | TENT : | NO. | | | KIN | D | DATE | | | APPL | CAT | ION | NO. | | D | ATE | |
|---------|--------|-------|------|-----|-----|-----|------|------|-----|-------|------|------|-----|-----|------|------|-----|
| | | | | | | - | | | | | | | | | - | | |
| US | 2005 | 1479 | 85 | | A1 | | 2005 | 0707 | 1 | US 2 | 004- | 8226 | 39 | | 2 | 0040 | 412 |
| US | 2005 | 14798 | 82 | | A1 | | 2005 | 0707 | 1 | US 2 | 004- | 7513 | 53 | | 2 | 0040 | 105 |
| | 2005 | | | | Al | | 2005 | | | | | | | | | 0040 | |
| WO | 2005 | 0684 | | | A1 | | 2005 | | | | | | | | | | |
| | W: | AE, | AG, | AL, | AM, | AT, | AU, | AZ, | BA, | BB, | BG, | BR, | BW, | BY, | BZ, | CA, | CH, |
| | | CN, | co, | CR, | CU, | CZ, | DE, | DK. | DM. | DZ. | EC. | EE. | EG. | ES. | FI. | GB. | GD. |
| | | | | | | | ID, | | | | | | | | | | |
| | | LK. | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ. | NA. | NI, |
| | | NO, | NZ, | OM, | PG, | PH, | PL, | PT, | RO, | RU, | SC, | SD, | SE, | SG, | SK, | SL. | SY. |
| | | TJ, | TM, | TN, | TR, | TT, | TZ, | UA, | UG, | US, | UZ. | VC, | VN, | YU, | ZA, | ZM, | ZW |
| | RW: | BW, | GH, | GM, | ΚĖ, | LS, | MW, | MZ, | NA, | SD, | SL, | 5Z, | TZ, | UG, | ZM, | ZW. | AM, |
| | | AZ, | BY, | KG, | KZ, | MD, | RU, | TJ, | TM, | AT, | BE, | BG, | CH, | CY, | CZ, | DE. | DK, |
| | | EE, | ES, | FI, | FR, | GB, | GR, | HU, | IE, | IS, | IT, | LT, | LU, | MC, | NL, | PL, | PT, |
| | | RO, | SE, | SI, | SK, | TR, | BF, | ΒJ, | CF, | CG, | CI, | CM, | GA, | GN. | GQ, | GW. | ML, |
| | | MR, | NE, | SN, | TD, | TG | | | | | | | | | | | |
| PRIORIT | Y APP | LN. | INFO | .: | | | | | 1 | US 21 | 004- | 7513 | 53 | | A2 2 | 0040 | 105 |
| | | | | | | | | | 1 | US 21 | 004- | 7513 | 54 | | A 2 | 0040 | 105 |
| | | | | | | | | | 1 | US 21 | 004- | 7513 | 87 | | A 2 | 0040 | 105 |
| | | | | | | | | | 1 | US 21 | 004- | 7513 | 88 | | A 2 | 0040 | 105 |
| | | | | | | | | | 1 | US 2 | 004- | 8226 | 39 | | A2 2 | 0040 | 412 |
| | | | | | | | | | | US 2 | | | | | | 0040 | |
| | | | | | | | | | | | | | | | - | | |

OTHER SOURCE(s): MARPAT 143:93642

IT 856180-06-2P 857027-09-99

RL: RCT (Reactant): SEN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (mixts. of isobarically labeled analytes and fragments ions derived therefrom)

RN 856180-06-2 HCAPLUS

CN 2,5-Pytrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

RN 857027-09-9 HCAPLUS

Page 1608/03/2006

L18 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

●2 HCl

ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued) 2-Pyerolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

ΙT

856187-87-6P 856188-16-4P 856188-20-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
856187-87-6 HCAPLUS
2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-180]oxy]- (9CI)
(CA INDEX NAME)

856188-16-4 HCAPLUS
2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-180]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

856188-20-0 HCAPLUS 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-180]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

L18 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

●2 HC1

L18 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN FAMILY ACC. NUM. COUNT: 6 PATENT INFORMATION: (Continued)

| | ATENT | | | | | KIN | | | | | | | | | | | | |
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| | 200 | | | | | | | | | | | | | | | | | |
| W | 200 | 5068 | 446 | | | A1 | | 2005 | 0728 | | WO 2 | 2005- | U522 | 3 | | 2 | 0050 | 105 |
| | W: | AE | . A | G. | AL, | AM, | AT. | AU, | AZ. | BA. | BB. | BG, | BR. | BW. | BY. | BZ. | CA. | CH. |
| | | | | | | | | | | | | EC. | | | | | | |
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| | ₽₩ | : B⊌ | , G1 | н, | GM, | ΧE, | LS, | MW, | MZ, | NA, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ZW, | AM, |
| | | AZ | , B' | Υ, | KG, | ΚZ, | MD, | RU, | TJ, | TM, | AT. | BE, | BG. | CH. | CY, | CZ. | DE. | DK. |
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| ODI | TY AP | | | | | | | | | | | 2004- | 7612 | | | | 0040 | |
| UNI | ı, wı | r Liv. | 1141 | ٠٠. | • | | | | | | | | | | | | | |
| | | | | | | | | | | | | 2004~ | | | | | 0040 | |
| | | | | | | | | | | | | 2004 - | | | | A 2 | 0040 | 105 |
| | | | | | | | | | | | US 2 | 2004- | 7513 | 88 | - 4 | A 2 | 0040 | 105 |
| | | | | | | | | | | | US 2 | 2004- | 8226 | 39 | - 1 | A 2 | 0040 | 412 |
| | | | | | | | | | | | | 2004- | | | | | 0040 | |
| IER S | SOURC | E(S) | | | | MAD | DAT | 143: | 1155 | | • | | | | | | | |
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PRI

R SOURCE(S): MARPAT 143:115568
8856188-20-OP
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST
(Analytical study): PREF (Preparation): USES (Uses)
(preparation of isotopically enriched N-substituted piperazine-1-acetic
acids as isobaric labeling reagents)
856188-20-0 HCAPUS
2,5-Pyrrolidinedione, 1-[[(4-sethyl-1-piperazinyl-1-15N)acetyl-2-13C180]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

856188-16-49
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
856188-16-4 HCAPUNE
2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-180]oxy]-,
dihydrochloride (9C1) (CA INDEX NAME)

L18 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN ED Entered STN: 08 Jul 2005

$$\begin{array}{c|c} z & z \\ \hline & z \\ \hline & z \\ \hline & z \\ \end{array} XH \quad \begin{array}{c} z \\ \end{array}$$

AB

Isotopically enriched N-substituted piperazine-1-acetic acids (I) or salts thereof, comprising one or more heavy atom isotopes [X = 0, 5: Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently (comprise linked hydrogen, deuterium or F atoms; Z = independently H, deuterium, F, C1, Br. iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms), a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deverium or F atoms, or a straight chain or branched C1-6 alkoxy group that may optionally contain substituted aryl groups each independently comprise linked H, deuterium or F atoms) are prepared aryl group that may optionally contain substituted or unsubstituted aryl groups each independently comprise linked H, deuterium or F atoms) are prepared N-substituted piperazines can be sed as intermediates in the synthesis of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine piperazine acetic acid. The active esters of N-substituted piperazine piperazine acetic acid. The active esters of N-substituted piperazine in label an alytes such as peptides, proteins, smin and acids, olig

2005:588426 HCAPLUS
143:115568
Preparation of isotopically enriched N-substituted piperazine-1-acetic acids
Dey, Subhakar: Pappin, Darryl J. c.: Purkayastha, Subhasish Fillai, Sasir Coull, James M. Applera Corp., USA
U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXXXO
Patent

INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE:

L18 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN

856187-87-69 856188-06-29 857027-09-99
RL: SPN (Synthetic preparation): PREF (Preparation)
(preparation of isotopically enriched N-substituted piperazine-1-acetic
acids as isobaric labeling reagents)
856187-87-6 HCAPLUS

2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-180]oxy]- (9CI)

856188-06-2 HCAPLUS 2,5-Pyrrolldinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

857027-09-9 HCAPLUS
2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

L18 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
AB This invention pertains to isobarically labeled analytes and fragment ions thereof.
ACCESSION NUMBER: 2005:588349 HCAPLUS
DOCUMENT NUMBER: 143:112150
IIILE: Isoba-:----

derived therefrom
Pappin, Darryl J. C.; Purkayastha, Subhasish; Coull,
James M.
Applera Corporation, USA
U.S. Pat. Appl. Publ., 88 pp., Cont.-in-part of U.S.
Ser. No. 822,639.
CODEN: USXXCO INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PRI

| ENT | IN | PUF | MAI I | UN: | | | | | | | | | | | | | | |
|-------|-----|-----|-------|------|-----|------|----|------|------|-----|------|------|-------|-----|-----|------|------|-----|
| P | ATE | NT | NO. | | | KIN. | D | DATE | | | APPL | ICAT | ION | NO. | | D. | ATE | |
| - | | | | | | | - | | | | | | | | | - | | |
| U: | S 2 | 005 | 1480 | 87 | | A1 | | 2005 | 0707 | | US 2 | 004- | 8527 | 30 | | 2 | 0040 | 524 |
| U | S 2 | 005 | 1479 | 82 | | A1 | | 2005 | 0707 | | US 2 | 004- | 7513 | 53 | | 2 | 0040 | 105 |
| U | S 2 | 005 | 1479 | 85 | | A1 | | 2005 | 0707 | | US 2 | 004- | 8226 | 39 | | 2 | 0040 | 412 |
| W | 0 2 | 005 | 0684 | 46 | | A1 | | 2005 | 0728 | | WO 2 | 005- | US22 | 3 | | 2 | 0050 | 105 |
| | | | AE, | | | | | | | | | | | | | | | |
| | | | | | | | | DE, | | | | | | | | | | |
| | | | | | | | | ID, | | | | | | | | | | |
| | | | | | | | | LV, | | | | | | | | | | |
| | | | | | | | | PL, | | | | | | | | | | |
| | | | | | | | | TZ, | | | | | | | | | | |
| | | D | | | | | | | | | | | | | | | | |
| | | KW: | BW, | | | | | | | | | | | | | | | |
| | | | | | | | | RU, | | | | | | | | | | |
| | | | | | | | | GR, | | | | | | | | | | |
| | | | | | | | | BF, | ВJ, | CF, | CG, | CI, | CM, | GΑ, | GN, | GQ, | GW, | ML, |
| | | | MR, | NE, | SN, | TD, | TG | | | | | | | | | | | |
| ORI | ΤY | APP | LN. | info | . : | | | | | | US 2 | 004- | 7513. | 53 | | A2 2 | 0040 | 105 |
| | | | | | | | | | | | US 2 | 004- | 8226 | 39 | | A2 2 | 0040 | 112 |
| | | | | | | | | | | 1 | US 2 | 004- | 7513 | 54 | | A 21 | 0040 | 105 |
| | | | | | | | | | | | US 2 | 004- | 7513 | 87 | | A 21 | 0040 | 105 |
| | | | | | | | | | | | US 2 | 004- | 7513 | 88 | | A 2 | 0040 | 105 |
| | | | | | | | | | | | US 2 | 004- | 8527 | 30 | | A 2 | 0040 | 524 |
| TED (| COL | DCE | | | | *** | | 143. | 1121 | E 0 | | | | | | | | |

MARPAT 143:112150

OTHER SOURCE(S): IT 857027-09-9P us7027-09-9P
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT
(Reactant or reagent)
(Isobarically labeled analytes and fragment ions derived therefrom)
857027-09-9 HCAPLUS
2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

L18 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
AB This invention pertains to mixts. of isobarically labeled analytes and fragment ions thereof.
ACCESSION NUMBER: 2005:588336 HCAPLUS
DOCUMENT NUMBER: 143:93635
TITLE: Mixture.

Loub ACS on STN

Leans to mixts, of isobarically labeled analytes and iteof.

2005:588336 HCAPLUS
143:93635
Mixtures of isobarically labeled analytes and fragments ions derived therefrom
Pappin, Darryl J. C.; Purkayastha, Subhasish; Coull, James M.

Applera Corporation, USA
U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO
Patent
English
6

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM, COUNT: PATENT INFORMATION:

| P | ATENT | NO. | | | KIN | D | DATE | | | APPL | ICAT | ION | NO. | | D. | ATE | |
|--------|--------|------|------|-----|-----|-----|------|------|-----|-------|------|------|-----|-----|------|------|-----|
| - | | | | | | - | | | | | | | | | - | | |
| U | 5 2005 | 1479 | 82 | | A1 | | 2005 | 0707 | | US 2 | 004- | 7513 | 53 | | 2 | 0040 | 105 |
| U | 5 2005 | 1479 | 85 | | A1 | | 2005 | 0707 | | US 2 | 004- | 8226 | 39 | | 2 | 0040 | 412 |
| U | 5 2005 | 1480 | 87 | | A1 | | 2005 | 0707 | | US 2 | 004- | 8527 | 30 | | 2 | 0040 | 524 |
| W | 2005 | 0684 | 46 | | A1 | | 2005 | 0728 | | WO 2 | 005- | US22 | 3 | | 2 | 0050 | 105 |
| | V: | ΑE, | AG, | AL, | AM, | AT, | AU, | AZ, | BA, | BB, | BG, | BR, | BW, | BY, | BZ, | CA, | CH, |
| | | CN, | co, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, |
| | | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | KE, | KG, | KP, | KR, | KZ, | LC, |
| | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA. | NI, |
| | | NO, | NZ, | OM, | PG, | PH, | PL, | PT, | RO, | RU, | SÇ, | SD, | SE. | SG. | SX, | SL, | SY. |
| | | TJ, | TM, | TN, | TR, | TT, | TZ, | UA, | UG, | US, | UZ, | VC. | VN. | YU, | ZA, | ZM. | ZW |
| | RW: | BW, | GH, | GM, | KE, | LS, | MW, | MZ, | NA, | SD, | SL, | SZ, | TZ, | UG. | 211. | ZW. | AM. |
| | | AZ, | BY, | KG, | ΚZ, | MD, | RU, | TJ, | TM, | AT, | BE, | BG, | CH, | CY, | CZ, | DE, | DK, |
| | | EE, | ES, | FΙ, | FR, | GB, | GR, | ΗU, | IE, | IS, | IT, | LT, | LU, | MC, | NL, | PL, | PT, |
| | | RO, | SE, | SI, | SK, | TR, | BF, | BJ, | CF, | CG, | CI, | CM, | GA, | GN, | GQ, | GW. | ML. |
| | | MR, | NE, | SN, | TD, | ŤG | | | | | | | | | | | |
| PRIORI | TY APP | LN. | INFO | . : | | | | | | U\$ 2 | 004- | 7513 | 53 | - 1 | A2 2 | 0040 | 105 |

US 2004-751353 US 2004-751354 US 2004-751387 US 2004-751388 US 2004-822639 US 2004-852730 A2 20040105 A 20040105 A 20040105 A 20040105 A2 20040412 A 20040524

856188-06-2P 857027-09-9P
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation): RACT (Reactant or reagent)
(Reactant or reagent)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
856188-06-2 HCAPUS
2.5-Pyrcolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME) ΙT

857027-09-9 HCAPLUS
2-Pyrrolidinone, 1-[{(4-methyl-1-piperazinyl)acetyl}oxy]- (9CI) (CA INDEX
NAME)

Page 1808/03/2006

L18 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2006 ACS OR STN (Continued)

IT 741683-79-4P 856187-87-6P 856188-06-2P

RL: SPM (Synthetic preparation): PREP (Preparation) (isobarically labeled analytes and fragment ions derived therefrom) 741683-79-4 HCAPLUS 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)

856187-87-6 HCAPLUS 2,5-Pyrrolidinedione, 1-{{(4-methyl-1-piperazinyl)acetyl-180]oxy}- (9CI) (CA INDEX NAME)

856188-06-2 HCAPLUS 2,5-Pyrcolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

L18 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

ΙT

856187-87-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(mixts. of isobarically labeled analytes and fragments ions derived
therefrom)
856187-87-6 HCAPLUS
2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-180]oxy)- (9CI)
(CA INDEX NAME)

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ANSWER 7 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
Entered STN: 16 May 2005
Glycarophosphoethanolamine (GPEtn) and glycarophosphoserine (GPSer) lipids
were reacted with a multiplexed set of differentially isotopically
enriched M-methylpiperazine acetic acid M-hydroxyauccinimide ester
reagents, which place isobaric mass labels at a primary amino group. The
resulting derivitized aminophospholipids were isobaric and chromatog,
indistinguishable but yielded pos. reporter ions (m/z 114 or 117) after
collisional activation that could be used to identify and quantify
individual members of the multiplex set. The chromatog, and mass
spectrometric response of N-methylpiperazine anide-taged
aminophosphosine lipid stds. The (M+H) of each tagged
aminophosphosine lipid stds. The (M+H) of each tagged
aminophospholipid shifted 144 Dm, and during collision-induced dissociation
the major fragmentation ion was either m/z 114 or 117. This mode of
detecting aminophospholipids was useful for an unbiased anal. of
plasmalogen GPEtn lipids. Mol. species information on the esterified
fatty acyl substituents was obtained by collisional activation of the
(M+H)- ions. The isotope-tagged reagents were used to assess changes in
the distribution of GPEtn lipids after exposure of lipsosmes amade from
phospholipids extracted from RAW 264.7 cells to Cu2+/H2O2 to illustrate the
ability of these reagents to aid in the mass spectrometric identification
of aminophospholipid changes that occur during biol. stimuli.
SSION NUMBER: 2005:412987 HCAPLUS
MENT NUMBER: 144:16804

DOCUMENT NUMBER: TITLE:

AUTHOR(S): CORPORATE SOURCE:

144:186804
Analysis of cell membrane aminophospholipids as isotope-tagged derivatives Cemski Berry, Karin A.; Murphy, Robert C. Department of Pharmacology, University of Colorado Health Sciences Center, Aurora, CO, 80045, USA Journal of Lipid Research (2005), 46(5), 1038-1046 CODEN: JLFARW, ISSN: 0022-2275
American Society for Biochemistry and Molecular Biology, Inc.
Journal SOURCE:

PUBLI SHER:

DOCUMENT TYPE:

English

856188-06-2

RL: RCT (Reactant): RACT (Reactant or reagent)
(preparation and mass spectrometric anal. of cell membrane
aminophospholipids as isotope-tagged derivs.)
856188-06-2 RCAPLUS

2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 8 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

741683-79-4 HCAPLUS 2,5-Pytrolidinedione, 1-{(1-piperidinylacetyl)oxy}- (9CI) (CA INDEX NAME)

760385-34-0 HCAPLUS
2.5-Pyrrolidinedione, 1-[{(2,6-dimethyl-1-piperidinyl)acetyl}oxy]- (9CI)
(CA INDEX NAME)

L18 ANSVER 8 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN

Entered STN: 08 Oct 2004

AP Provided is a method for characterizing a mol. by mass spectrometry, which
mol. comprises one or more free amino groups, which method comprises: (a)
reacting one or more free amino groups in the mol. with a mass tag reagent
comprising a reactive functionality capable of reacting with an amino
group, and a tertiary manno group linked to the reactive functionality;
and (b) characterizing the mol. by mass spectrometry.

ACCESSION NUMBER: 2004:824:132 HCAPLUS
DOCUMENT NUMBER: 141:310231 mass labels
Hamon, Christian; Kuhn, Karsten; Thompson, Andrew;
Reuschling, Dieter; Schaefer, Juergen
Xzillion G.m.b.H. & Co. K.-G., Germany; Proteome
Sciences PLC
PCT Int. Appl., 63 pp.
CODEN: PIXXO2
Patent
English

INVENTOR (S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| | | PENT | | | | | KIND DATE | | | | | | | NO. | | | ATE | |
|------|----|-------|------|------|------|-------------|-----------|------|----------|-----|------|------|------|-----|-----|------|------|-----|
| | | | | | | A2 20041007 | | | | | | | | | _ | 0040 | | |
| | | | | | | | | | 20041229 | | | 004- | GDII | 0, | | 2 | 0040 | 310 |
| | #O | 2004 | | | | | | | | | | | | | | | | |
| | | ٧: | ΑE, | AG, | AL, | AM, | AT, | AU, | ΑZ, | BA, | BB, | BG, | BR, | BV, | BY, | BZ, | CA, | CH, |
| | | | CN, | œ, | CR, | CU, | cz, | DE, | DK, | DM, | DŻ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, |
| | | | GE. | GH. | GM. | HR. | HU. | ID. | IL. | IN. | IS. | JP. | KE. | KG. | KP. | KR. | KZ. | LC. |
| | | | | | | | | | MA. | | | | | | | | | |
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| | | RV: | | | | | | | ΜZ, | | | | | | | | | |
| | | | BY, | KG, | KZ, | MD, | RU, | TJ, | TM, | ΑT, | BE, | BG, | CH, | CY, | CZ, | DE, | DK, | EE, |
| | | | ES, | FI, | FR, | GB, | GR, | HU, | IE, | IT, | LU, | MC, | NL, | PL, | PT, | RO, | SE, | SI, |
| | | | SK. | TR. | BF. | BJ. | CF. | CG. | CI, | CH. | GA. | GN. | 50. | GV. | ML. | MR. | NE. | SN. |
| | | | | TG | , | , | , | , | , | , | | , | | | , | , | | , |
| | CA | 2520 | | | | | | 2004 | 1007 | | C1 2 | 004- | 2520 | 207 | | 2 | 0040 | 310 |
| | | | | | | | | | | | | | | | | | | |
| | EP | 1606 | | | | | | | | | | | | | | | | |
| | | R: | | | | | | | FR, | | | | | | | | | |
| | | | | | | | | | MK, | | | | | | | | | |
| | NO | 2005 | 0046 | 84 | | A | | 2005 | 1012 | | NO 2 | 005- | 4684 | | | 2 | 0051 | 012 |
| PRIC | | ' APP | | | | | | | | | | | | | | | | |
| - / | | | | | | | | | | | | | | 67 | | | | |
| İT | 74 | 1683- | 76-1 | P 74 | 1683 | -79- | 4P 7 | 6838 | 5-34 | | | | | • | | | 0 | |

İΤ RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (mass labels) 741683-76-1 HCAPLUS

2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl)oxy]- (9CI) (CA INDEX NAME)

ANSWER 9 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN
Entered STN: 20 Aug 2004
This invention pertains to methods, mixts., kits and/or compns. for the
determination of analytes by mass anal. using unique labeling reagents or sets of
unique labeling reagents. The labeling reagents can be isomeric or
isobaric and can be used to produce mixts. suitable for multiplex anal. of
the labeled analytes.
SSION NUMBER: 2004:681717 HCAPLUS
MEXT NUMBER: 141:202794

ACCESSION NUMBER:

DOCUMENT NUMBER: TITLE:

141:202794
Methods, mixtures, kits and compositions pertaining to analyte determination
Pappin, Darryl J. C.; Bartlet-Jones, Michael
Applera Corporation, USA
PCT Int. Appl., 105 pp.
CODEN: PIXXU2

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

English

PATENT NO. KIND DATE APPLICATION NO. UALE

WO 2004070352 A2 20040819 WO 2004-US2077 20040127

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BW, BZ, CA, CH, CH, CC, CC, CL, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, CB, LW, LW, LK, LK, LK, LU, LV, HA, HD, DZ, EC, EE, EG, ES, FI, GB, CB, LW, LK, LE, LS, LT, LU, LV, HA, HD, MG, MK, HM, MW, MW, MZ, NA, HL, RW: BW, GH, GM, KE, LS, HW, HZ, SD, SL, SZ, TZ, UG, ZW, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, CQ, GW, NL, PT, RO, SE, SI, KTR, BF, BJ, CF, CG, CI, CH, GA, GN, CQ, GW, ML, MR, NE, SN, TD, TG

CA 2488584 AA 20040819 CA 2004104 CUS 2004-268558 20040127

US 2004229612 A1 20041104 CUS 2007-765765 20040127

US 200429666 A1 20041104 CUS 2007-765765 20040127

US 200429666 A2 20051026 EP 2004-0705571 20040127

R: AT, BE, CH, DE, DX, ES, FR, GB, GR, IT, LI, LU, NL, SR, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO::

US 2003-443612P P 20030130 DATE PATENT NO. APPLICATION NO.

02004-US2077 W 20040127

20040127 P 741683-77-2P 741683-8-3P

20040127 P 741683-9-3-2P

20040127 P 741683-9-3-2P

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741683-77-2 HCAPLUS 2.5-Pyrrolidinedione, 1-[(4-morpholinylacetyl-1-13C)oxy]- (9CI) (CA INDEX NAME)

L18 ANSWER 9 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

741683-78-3 HCAPLUS 2.5-Pyrrolidinedione, 1-[(4-morpholinylacetyl-2-13C)oxy]- (9CI) (CA INDEX NAME)

741683-79-4 HCAPLUS 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)

741683-80-7 HCAPLUS 2,5-Pyrrolidinedione, 1-[(1-piperazinylacetyl)oxy]- (9CI) (CA INDEX NAME)

741683-86-3 HCAPLUS 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl-1-13C)oxy]- (9CI) (CA INDEX NAME)

L18 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN

Entered STN: 17 May 2004

AB The process comprises N-alkylating swainsonine with bromoacetic acid
N-succinianido ester in acetone under refluxing, coupling with bowine serum
albumin in water at 0 °C, dialyzing, freeze drying, and emulsifying
with Freund's adjuvant.

ACCESSION NUMBER: 2004:399339 HCAPLUS
DCUMENT NUMBER: 141:254556

ITILE: Grassland's locoweed toxin vaccine
INVENTOR(S): Dong, Dewen; Cao, Guangrong; Zhao, Baoyu; Ge, Pengbin
Danong Biotechnology Co., Ltd., Yangling, Peop. Rep.
China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 17 pp.

China Faming Zhuanli Shenqing Gongkai Shuomingshu, 17 pp.
CODEN: CNOXEV
Patent
Chinese

SOURCE:

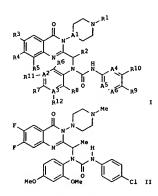
DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE CN 1395967 A 20030212 CN 2002-114592 20020524
PRIORITY APPLM. INFo.: CN 2002-114592 20020524
IT 734196-04-99
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(vaccine for Grassland's locowed toxin)
RN 754196-04-9 HCAPLUS
CN Indolizinium, 4-[2-{(2,5-dioxo-1-pyrrolidinyl)oxy}-2-oxoethyl]octahydro1,2,8-trihydroxy-, bromide, (15,2R,8R,8aR) - (9CI) (CA INDEX NAME)

L18 ANSWER 9 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

741683-93-2 HCAPLUS 2.5-Pyrrolidinedione, 1-{(1-piperidinylacetyl-2-13C)oxy}- (9CI) (CA INDEX NAME)

ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN Entered STN: 28 Nov 2003



AB This invention relates to compds, of formula I [Al-A6 = C, N: Rl = H, alkyl, cycloalkyl, CH2-cycloalkyl, etc.: R2 = alkyl, R3-R12 = H, alkyl, CF3, alkowy, halo, OR, CN, etc.] that are efflux pump inhibitors and therefore are useful as potentiators of anti-fungal agents for the treatment of infections caused by fungi that employ an efflux pump resistance mechanism. Thus, II was prepared and showed a reduced MIC value against Candida ablicans in the presence of fluconazole.

ACCESSION NUMBER: 2003:930975 HCAPLUS
DOCUMENT NUMBER: 139:95945

TITLE: Preparation of quinazolinylmethyl urea derivatives as fungal afflux pump inhibitors.

Preparation of quinazolinylmethyl urea derivatives as fungal efflux pump inhibitors
Watkins, Will J.; Lemoine, Remy; Cho, Aesop; Palme, Monica

INVENTOR(S):

PATENT ASSIGNEE(S):

Watkins, Will U.; Lemoine, Remy; Cho, Aesop; Palme, Monica USA U.S. Pat. Appl. Publ., 109 pp., Cont.-in-part of U.S. Ser. No. 906,864. CODEN: USKXCO

DOCUMENT TYPE: Patent

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| PATENT | NO. | | | KIN | D | DATE | | | APPL | ICAT | ION | NO. | | D. | ATE | |
|--------|-------|-----|-----|-----|-----|------|------|-----|------|------|-------|-----|-----|-----|------|-----|
| | | | | | - | | | | | | | | | - | | |
| US 200 | 32203 | 38 | | A1 | | 2003 | 1127 | - | US 2 | 002- | 2430 | 74 | | 2 | 0020 | 912 |
| US 659 | 6723 | | | B1 | | 2003 | 0722 | | US 2 | 001- | 9068 | 64 | | 2 | 0010 | 716 |
| US 200 | 32290 | 97 | | A1 | | 2003 | 1211 | | US 2 | 002- | 3347 | 55 | | 2 | 0021 | 230 |
| US 668 | 9782 | | | B2 | | 2004 | 0210 | | | | | | | | | |
| WO 200 | 40241 | 40 | | A1 | | 2004 | 0325 | 1 | WO 2 | 003- | U\$51 | 84 | | 2 | 0030 | 221 |
| W: | ΑE, | AG, | AL, | AM, | AT, | AU, | AZ, | BA, | BB, | BG, | BR, | BY, | BZ, | CA, | CH. | CN. |
| | co, | CR, | CU, | CZ, | DE, | OK, | DM, | DZ, | EC, | EE, | ES, | FI, | GB, | GD, | GE, | GH, |

L18 ANSVER 11 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
LS, LT, LU, LV, HA, MD, MG, KK, MN, MV, MX, MZ, NO, NZ, CM,
PL, PT, RO, RU, SC, SD, SE, SC, SK, SL, IJ, TM, TN, TR, TT,
UA, UG, UZ, VC, VN, YU, ZA, ZH, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
PI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SK, TR,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
AU 2003215343 A1 20040430 AU 2003-215343
PRIORITY APPLN. INFO::

US 2002-243074 A2 200205
US 2002-344755 A 20021T
US 2002-344755
US 2002-344755
W 200300 OTHER SOURCE(S): IT 626245-59-8P MARPAT 139:395945

L18 ANSWER 12 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GH, KE, LS, HW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,

KG, KZ, MD, RU, TJ, TH, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,

FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, FT, RO, SE, SI, SK, TR,

BF, BJ, CF, CG, CI, CH, GA, GN, GQ, GW, ML, MR, ES, NT, DT,

AU 2003216991 A1 20030916 AU 2003-216991 20030304

EP 1485371 A2 20041215 EP 2003-712313 20030304

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

US 2005131016 A1 20050616 US 2003-506748 20030304

PRIORITY APPLN. INFO.:

GB 2002-5162 A 20020306

PROORDESS GR TO TO TO THE TO WO 2003-GB893 OTHER SOURCE(S): MARPAT 139:261174 599193-13-2P

599193-13-29
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
 (preparation of N-heterocyclyl indole-2-carboxamides as glycogen
 phosphorylase inhibitors)
599193-13-2 HCAPLUS
HH-Indole-2-carboxamide, 5-chloro-N-[1-[2-{(2,5-dioxo-1-pyrrolidinyl)oxy)-2-oxoethyl]-1,2,3,4-tetrahydro-2-oxo-3-quinolinyl]- (9CI) (CA INDEX NAME)

ANSWER 12 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN Entered STN: $14\ \mbox{Sep}\ 2003$

$$\begin{bmatrix} \mathbf{R}^{4} \end{bmatrix}_{\mathbf{n}} \underbrace{\begin{bmatrix} \mathbf{R}^{2} \\ \mathbf{N} \end{bmatrix}_{\mathbf{n}}}_{\mathbf{N}} \underbrace{\begin{bmatrix} \mathbf{R}^{1} \end{bmatrix}_{\mathbf{n}}}_{\mathbf{R}^{3}}$$

The title compds. [I: A = phenylene or heteroarylene: m = 0-2: n = 0-2: R1 = halo, NO2. CN, OH, CO2H, etc.: R2 = H, OH, CO2H; R3 = H, OH, ary), heterocyclyl, etc.: R4 = H, halo, NO2. CN, etc.: J which possess glycogen phosphorylase inhibitory activity and accordingly have value in the treatment of disease states associated with increased glycogen phosphorylase activity such as diabetes type II, were prepared Thus, andation of 5-chloro-IH-indole-2-carboxylic acid with Me 2-(3-amino-2-oxo-3,4-dihydroquinolin-1-(2H)-yl)acetate (preparation given) in the presence of HOBT, DCM and EDCI afforded 59 II. The compds. I showed IC50 values in the cange 100M to IMM against against hr] glycogen phosphorylase a. Pharmaceutical composition comprising the compound I was claimed.

SISION NUMBER: 2003:179471 HCAPLUS
MEMT NUMBER: 199:261174

DOCUMENT NUMBER: TITLE: 139:261174
Preparation of N-heterocyclyl indole-2-carboxamides as glycogen phosphocylase inhibitors
Birch, Alan Martin; Mocley, Andrew David
Astrazeneca AB, Swed.; Astrazeneca UK Limited
PCT Int. Appl., 86 pp.
CODEN: PIXXIZ

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 2003074513 A2 20030912 W0 2003-GB893 20030304 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MY, MX, MZ, NO, MZ, OM, PL, PT, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, WO 2003074513 WO 2003074513

ANSWER 13 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN Entered STN: 21 Mar 1995

AB .The crystal structure of 18-membered cyclic pseudopeptide I, containing N.N'-ethylene-bridged-(S)-alanyl-(S)-alankne and glycine was determined by x-ray crystallog. Moreover, the structure of this pseudopeptide was examined by 1H NNR measurement in CD3CN, and by mol. mechanics calcns.

ACCESSION NUMBER: 1995:427460 HCAPLUS

DCCUMENT NUMBER: 123:83982

TITLE: Structure of cyclic hexa-pseudopeptide constructed from N.N'-ethylene-bridged-(S)-alanyl-(S)-alanine and glycine

AUTHOR(S): Kojima, Yoshitane, Yamashita, Tetsushi; Miyake, Hiroyuki

CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, 558, Japan

COMPORATE SOURCE: Chemistry Letters (1995), (3), 201-2

CODEN: CHLTAG; ISSN: 0366-7022

PUBLISHER: Nippon Kayakkai

DCCUMENT TYPE: Journal

IT 164857-03-8

PUBLISHER: DOCUMENT TYPE: LANGUAGE: IT 164857-03-8

164857-03-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(structure of cyclic hexapseudopeptide constructed from
ethylene-bridged alanylalanine and glycine)
164857-03-8 KCAPLUS
Piperazinone, 4-(aminoacetyl)-1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-1methyl-2-oxoethyl]-3-methyl-, monohydrochloride, [S-(R*,R*)]- (9CI) (CA
INDEX NAME)

LIS ANSWER 13 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

● HC1

L10 ANSWER 14 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN OTHER SOURCE(S): MARPAT 112:7937 (Continued) OTHER SOURCE(S): IT 124078-64-4P

124078-64-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and condensation of, with (glutamyl)indolecarboxylic acid) 124078-64-4 RCAPUS (2,5-Pyrrolidinedione, 1-[1-oxo-2-[4-(phenylmethyl)-1-piperazinyl]propoxy]-, (R)-(SCI) (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 14 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN ED Entered STN: 06 Jan 1990

$$Q^{2} = -(CH_{2})_{HN} \qquad NY \qquad Q^{1} = -N - CO_{2}R^{2}$$
 $Q^{2} = -N - CO_{2}R^{2} \qquad Q^{3} = -N - CO_{2}R^{2}$

AB RRICHCONHCH (CO2R2) (CH2) 2COR3 [I: R = H; lower alkyl. PhcH2; Rl = (NR]) a(CH2) nW, 0; R2 = H, lower alkyl: R3 = 01, 02, 03, NR4CHR2CO2R2; W = H, CO2H, NH2; OR; Y = H, lower alkyl: R3 = 01, 02, 03, NR4CHR2CO2R2; W = H, CO2H, NH2; OR; Y = H, lower alkyl: Ph, PhcH2; R4 = C4-8 cycloalkyl; halo, alkoxy, (OH-substituted) Ph; ms = 0, I: n = 0-4] and their saits are prepared Refluxing 28 g 2-(5)-bromopropionic acid with 42 g PhCH2OH in PhMe gave 17.0 g benzyl: 2-(5)-bromopropionic acid with 42 g PhCH2OH in PhMe gave 17.0 g benzyl: 2-(5)-bromopropionic acid with 42 g PhCH2OH to give 1.0 g 2-(R)-(4-benzyl:piperazinyl): propionic acid (Tl). Then, 24.5 g 7 N-benzyloxycarbonyl-01-ethyl-0-glutamic acid was stirred with 17.5 g Et (25, 3aS, 7aS)-1-(Y-D-glutamyl): octahydro-1H-indole-2-carboxylia-eRCli: n CH2C12, then reduced, and then hydrolyzed with aqueous NaOH to give 15.01 g (25, 3aS, 7aS)-1-(Y-D-glutamyl): octahydro-1H-indole-2-carboxylic acid (III). Then, 0.8 g II was treated with 0.4 g N-hydroxysuccinimide in CHC13 to give 2-(R)-(4-benzyl:piperazinyl): propionic acid N-hydroxysuccinimide ester, which was treated with 1.0 g III in THF to give 0.8 g (25, 3aS, 7aS)-1-(N-2(R)-(4-benzyl:piperazinyl:propionyl)-y-D-glutamyl]: octahydro-Hi-indole-2-carboxylic acid, 0.4 g of which was refluxed with HOZBH in Medical-2-carboxylic acid, which showed an ICSO of 2.1 + 10-7 M against angiotensin converting enzyme.

ACCESSION NUMBER: 1990:7937 HCAPLUS

DOCUMENT NUMBER: 1990:7937 HCAPLUS

DOCUMENT NUMBER: 1990:7937 HCAPLUS

Eventual Tabbitory Nishimura, Karuwai Deguchi.

112:7937
Preparation and testing of tripeptide derivatives as cardiovascular agents
Savayama, Tadahiro Nishimura, Kazuyar Deguchi,
Takashi
Dainisppon Pharmaceutical Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JOXXAF
Patent
Japaneres

INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

Japanese 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| | | | | |
| JP 01125357 | A2 | 19890517 | JP 1987-281873 | 19871106 |
| PRIORITY APPLN. INFO.: | | | JP 1987-281873 | 19871106 |

ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN Entered STN: 22 Jul 1988

AB Synthetic routes to cyclic peptides cyclo(Sar-EAA)4 (EAA - residue of title acid I) and cyclo(Sar-Sar-Sar-EAA)2 are described. Interaction of these cyclic peptides with p-toluenesulfonic acid salt of sodium, benzylsmine, and 4-phenylbutylamine were studied by 1H NMR.

ACCESSION NUMBER: 1098:423356 HCAPLUS

DOCUMENT NUMBER: 1098:423356 HCAPLUS

Interactions of organic substrates with 30- and 36-membered ring peptides containing (2S, 3'S)-2-(2'-cxo-3'-methylpiperazin-1'-yl) propancic acid and sarcosine Kojima, Yoshitane: Yamashita, Tetsushi; Shibata, Kozo; Ohsuka, Akio

CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, 558, Japan Polymer Journal (Tokyo, Japan) (1987), 19(10), 1221-3 CODEN: POLYMB; ISSN: 0032-3896

DOCUMENT TYPE: Journal English

LANGUAGE: IT 114967-10-1P

CH 1

CRN 114967-09-8 CMF C48 H73 N13 O15

10765267Amend

L18 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CRN 76-05-1 CMF C2 H F3 O2

- 10765267Amend
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L19 11 L13

=> d ed abs ibib hitstr 1-11

L19 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
AB This invention pertains to isobarically labeled analytes and fragment ions thereof.
ACCESSION NUMBER: 2005:588349 HCAPLUS
DOCUMENT NUMBER: 143:112150
TITLE: Isobaria----

2005:588349 HCAPLUS
143:112150
Isobarically labeled analytes and fragment ions derived therefrom
Pappin, Darryl J. C.; Purkayastha, Subhasish; Coull, James M.
Applera Corporation, USA
U.S. Pat. Appl. Publ., 88 pp., Cont.-in-part of U.S.
Ser. No. 822,639.
CODEN: USXXXXX INVENTOR (5):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent English 6 LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| - | | | | | | | | | | | | | | | | | | | |
|---|-----|------|------|--------------|-----|-----|-----|------|------|-----|------|------|------|-----|-----|-----|------|-----|--|
| | PAT | ENT | NO. | | | KIN | D | DATE | | | APPL | ICAT | ION | NO. | | D | ATE | | |
| | | | | - | | | - | | | | | | | | | - | | | |
| | US | 2005 | 1480 | 87 | | A1 | | 2005 | 0707 | | US 2 | 004- | 8527 | 30 | | 2 | 0040 | 524 | |
| | US | 2005 | 1479 | 82 | | A1 | | 2005 | 0707 | | US 2 | 004- | 7513 | 53 | | 2 | 0040 | 105 | |
| | US | 2005 | 1479 | 95 | | A1 | | 2005 | 0707 | | US 2 | 004- | 8226 | 39 | | 2 | 0040 | 412 | |
| | WO | 2005 | 0684 | 46 | | A1 | | 2005 | 0728 | | WO 2 | 005- | US22 | 3 | | 2 | 0050 | 105 | |
| | | W: | AE, | AG. | AL. | AM. | AT. | AU. | AZ. | BA. | BB. | BG. | BR. | BW. | BY. | | | | |
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| | | RV: | BW, | | | | | | | | | | | | | | | | |
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MR, NE, SN, TD, TG PRIORITY APPLN. INFO.: US 2004-751353 US 2004-822639 US 2004-751354 US 2004-751387 US 2004-751388 US 2004-852730 A2 20040105 A2 20040412 A 20040105 A 20040105 A 20040105 A 20040524

OTHER SOURCE(5): MARPAT 143:112150

IT 741683-79-4F
RL: SPN (Synthetic preparation); PREP (Preparation)
(isobarically labeled analytes and fragment ions derived therefrom)
RN 741683-79-4 HCAPUIS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)

L19 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 08 Oct 2004

AB Provided is a method for characterizing a mol. by mass spectrometry, which mol. comprises one or more free amino groups, which method comprises: (a) reacting one or more free amino groups in the mol. with a mass tag reagent comprising a reactive functionality capable of reacting with an amino group linked to the reactive functionality; and (b) characterizing the mol. by mass spectrometry.

ACCESSION NUMBER: 2004:824132 HCAPLUS

DOCUMENT NUMBER: 141:310231

INTENTION (S): Hamon, Christian; Kuhn, Karsten; Thompson, Andrew; Reuschling, Dieter; Schaefer, Juergen

ACCESSION SIGNEE(S): Xzillion G.m.b.H. & Co. K.-G., Germany; Proteome Sciences PLC

SOURCE: PCT Int. Appl., 63 pp.

COOMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

| | D 3.7 | ENT | 110 | | | VIN | n | DATE | | | a nn r | 7017 | ton | | | | | |
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| | | | | | | | | UALL | | | | TCMI | | | | D. | A1E | |
| | | 2004 | | | | | | 2004 | 1007 | | | | | | | - | 0040 | 310 |
| | | 2004 | | | | | | | | | -0 2 | 004- | ODII | 0, | | | 0040 | 310 |
| | | | | | | | | AU, | | | nn. | B.C | DD. | DtJ | 20 | 10.77 | C | a |
| | | | | | | | | DE, | | | | | | | | | | |
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| | | RW: | | | | | | HV, | | | | | | | | | | |
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| | | | TD. | | | , | ٠., | , | , | ٠., | ٠, | , | · · | ٠., | , | , | , | ٠ |
| | CA | 2520 | | | | AA | | 2004 | 1007 | | CA 2 | 004- | 2520 | 297 | | 2 | 0040 | 318 |
| | | 1606 | | | | | | | | | | | | | | | | |
| | | | | | | | | ES, | | | | | | | | | | |
| | | | | | | | | RO, | | | | | | | | | | |
| | NO | 2005 | 0046 | B 4 | | Ä | , | 2005 | 1012 | ٠., | NO 2 | 005- | 4684 | ·•, | ш, | 2 | 251 | 112 |
| RIO | | APP | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | WO 2 | 004- | GRII | 67 | - 1 | 2 | 1040 | 318 |
| т | 74 | 1683- | 79-4 | P 76 | 8385 | -34-1 | BP | | | | | | | ٠. | | - | | |

IT

(Reactant or respent)
(mass labels)
741683-79-4 HCAPLUS
2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)

RN 768385-34-8 HCAPLUS CN 2,5-Pyrrolidinedione, 1-[[(2,6-dimethyl-1-piperidinyl)acetyl]oxy]- (9CI)

Page 2508/03/2006

L19 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN (CA INDEX NAME) (Continued)

L19 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 20 Aug 2004

A This invention pertains to methods, mixts., kits and/or compns. for the determination of analytes by mass anal. using unique labeling reagents or sets of unique labeling reagents. The labeling reagents can be isomeric or isobaric and can be used to produce mixts. suitable for multiplex anal. of the labeled analytes.

ACCESSION NUMBER: 2004:681717 HCAPLUS

141:202794
Methods, mixtures, kits and compositions pertaining to analyte determination
Pappin, Darryl J. C., Bartlet-Jones, Michael
Applera Corporation, USA
PCT Int. Appl., 105 pp.
CODEN: PIXXD2
PARENT DOCUMENT NUMBER: TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2004070352 A2 20040819 WO 2004-US2077 20040127

W: AE, NG, AL, MA, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CH, CO, CR, CU, CZ, DE, DK, MD, DZ, EC, EE, EG, ES, FI, GB, GB, GB, GH, GM, KH, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, NH, MW, MX, HZ, NA, NH, RW, BW, BB, GC, CH, CY, CZ, DE, DK, EE, SF, FI, FR, GB, GR, HU, IE, IT, LM, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, HR, NE, SN, TD, TG

CA 2483584 AA 20040819 CA 2004-2488584 20040127

US 2004219685 A1 20041104 US 2004-765267 20040127

US 2004219686 A1 20041104 US 2004-765267 20040127

US 2004219686 A1 20041104 US 2004-765267 20040127

EP 1588145 A2 20051026 EP 2004-765571 20040127

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, FRIORITY APPIN. INFO: US 2003-443612P P 20030130

WO 2004-1963-39-4P 741683-85-3P 741683-93-2P PATENT NO. KIND DATE APPLICATION NO. DATE

741683-79-4P 741683-86-3P 741683-93-2P

RE: SPM (Synthetic preparation); PREF (Preparation) (methods, mixts., kits and compns. pertaining to analyte determination) 741683-79-4 HCAPLUS

2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)

741683-86-3 HCAPLUS

2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl-1-13C)oxy]- (9CI) (CA INDEX NAME)

L19 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STM: 17 May 2004

AB The process comprises N-alkylating swainsonine with bromoacetic acid
N-succinimide ester in acetone under refluxing, coupling with bowine serum
albumin in water at 0 °C, dialyzing, freeze drying, and emulsifying

with Freund's adjuvant.

ACCUMENT NOMEER: 2004:399339 HCAPLUS

DOCUMENT NOMEER: 141:254556

TITLE: Grassland's locoweed toxin vaccine
Dong, Deven; Cao, Guangrong; Zhao, Baoyu Ge, Pengbin
Danong Blotechnology Co., Ltd., Yangling, Peop. Rep.
China

China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 17 pp. CODEN: CNXXEV

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|-------|----------|-----------------|----------|
| | KLIND | DALE | AFFEIGNTION NO. | DAIL |
| | | | | |
| CN 1395967 | A | 20030212 | CN 2002-114592 | 20020524 |
| PRIORITY APPLN. INFO.: | | | CN 2002-114592 | 20020524 |
| TT 754196-04-8P | | | | |

754195-04-8P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (vaccine for Grassland's locoweed toxin)
754196-04-8 HCAPLUS Indolfizing (Properties of Grassland's locoweed toxin)
1,2,8-trihydroxy-, bromide, (15,2R,8R,8aR)- (9CI) (CA INDEX NAME)

L19 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

741683-93-2 HCAPLUS 2.5-Pyrrolidinedione, 1-[(1-piperidinylacetyl-2-13C)oxy]- (9CI) (CA INDEX NAME)

ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN Entered STN: 14 Sep 2003

$$\begin{bmatrix} R^4 \end{bmatrix}_m \xrightarrow[N]{} O \xrightarrow[N]{} N \xrightarrow[N]{} A \xrightarrow[N]{} I \begin{bmatrix} R^1 \end{bmatrix}_n$$

AB The title compds. [Ir A = phenylene or heteroarylene: m = 0-2; n = 0-2; R1 = halo, NO2, CN, OH, CO2H, etc.; R2 = H, OH, CO2H; R3 = H, OH, aryl, heterocyclyl, etc.; R4 = H, halo, NO2, CN, etc.] which possess glycogen phosphorylase inhibitory activity and accordingly have value in the treatment of disease states associated with increased glycogen phosphorylase activity such as diabetes type II, were prepared Thus, amidation of 5-chloro-IH-indole-2-carboxylic acid with Me 2-(3-amino-2-oxo-3, 4-dihydroquinolin-1-(2H)-yl) acetate (preparation given) in the presence of HOBT, DCM and EDCI afforded 59% II. The compds. I showed IC5O values in the range 100pM to InM against against hrl glycogen phosphorylase a. Pharmaceutical composition comprising the compound I was claimed.

ACCESSION NUMBER: 2003:719471 HCAPLUS

DOCUMENT NUMBER: 139:261174

Preparation of N-heterocyclyl indole-2-carboxamides as

DOCUMENT NUMBER: TITLE:

1.39:261174
Preparation of N-heterocyclyl indole-2-carboxamides as glycogen phosphorylase inhibitors
Bicch, Alan Martin, Morley, Andrew David
Astrazeneca AB, Swed: Astrazeneca UK Limited
PCT Int. Appl.. 86 pp.
CODEN: PIXXD2 INVENTOR(S): PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: Patent

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| PATENT | | | | KIN | _ | DATE | | | APPL | ICAT | ION : | NO. | | D. | ATE | | |
|---------|------|-----|-----|-----|------|------|------|------|------|------|-------|-----|-----|-----|------|-----|--|
| | | | | | | | | | | | | | | - | | | |
| WO 2003 | 0745 | 13 | | A2 | | 2003 | 0912 | | WO 2 | 003- | GB89 | 3 | | 2 | 0030 | 304 | |
| WO 2003 | 0745 | 13 | | A3 | | 2003 | 1231 | | | | | | | | | | |
| w: | AE, | AG, | AL, | AM, | AT, | ΑU, | AZ, | BA, | BB. | BG. | BR, | BY, | BZ. | CA. | CH, | CN. | |
| | | | | | | | | | | | | | | | GE, | | |
| | GM, | HR, | ΗU, | ID, | IL, | IN, | IS, | JP, | KE, | KG, | KP, | KR, | KZ, | LC, | LK, | LR. | |
| | LS, | LT, | LU, | LV, | MA, | MD, | MG. | MK, | MN, | MW, | MX, | MZ, | NO, | NZ, | OM, | PH. | |
| | PL, | PT, | RO, | RU, | SÇ, | SD, | SE, | SG, | SK, | SL, | TJ, | TM, | TN, | TR, | TT. | TZ. | |
| | UA, | UG, | US, | UZ, | VC, | VN, | YU, | ZA, | ZM, | Z₩ | | | | | | | |
| RW: | GH, | GM, | KE, | LS, | MV, | MZ, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ZW, | AH, | AZ, | BY, | |
| | KG, | KZ, | MD, | RU, | TJ, | TM, | λT, | BE, | BG, | CH, | CY, | CZ, | DE, | DK, | EE, | ES. | |
| | FI. | FR. | GB. | GR. | HII. | IE. | IT. | LII. | MC | NT. | PT | RO. | SE | ST | SY | TO | |

10765267Amend

L19 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GV, ML, MR, NE, SN, TD, TG

AU 2003216991 A1 20030916 AU 2003-216991 20030304

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

US 2005131016 A1 20050616 US 2003-506748 20030304

PRIORAITY APPLIN. INFO: GB 2002-5162 A 20020306

PRIORAITY APPLIN. INFO: WO 2003-GB893 V 20030304

OTHER SOURCE(S): MARPAT 139:261174

IT 599193-13-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of N-heterocyclyl indole-2-carboxamides as glycogen phosphorylase inhibitors)

RN 599193-13-2 HCAPLUS

CN 1M-Indole-2-carboxamide, 5-chloro-N-[1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1,2,3,4-tetrahydro-2-oxo-3-quinolinyl]- (9CI) (CA INDEX NAME)

L19 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

REFERENCE COUNT:

2 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L19 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 01 Dac 1999
A A simple and sensitive LC method that rapidly labels amino compds.
including amino acids, using acridine-9-N-acetyl-N-hydroxysuccinicide
(AAHS) which was synthesized by the reaction of acridine-9-N-acetic acid
with benzenedisulfonyl-N-hydroxysuccinimide, was developed. A mixture of
amines is treated with AMIS in the presence of triethylamine in non-aqueous
acetonitrile or in 0.2 mol 1-1 borate buffer at pH 8.0-9.0 in 401
volume/volume acetonitrile solution to give quant. yields of amides. The
emission maximum for the derivatized amines is 435 mm (Aex - 404 mm).
The labeled derivs, are very stable; no significant decomposition is observed
after heating in 508 acetonitrile at 40° for 24 h. Studies on the
derivatization conditions indicate that amines or amino acids react very
rapidly with AMIS under the proposed conditions. The method, in
conjunction with a multi-step gradient, offers baseline resolution of common
amine or amino acid derivs. on a reversed-phase C18 column. This method
is more convenient and more efficient than previous methods which require
prior conversion of carboxylic acids to acyl chlorides, which are unstable
to moisture. The LC separation of amine or amino acid derivs. has good
reproducibility. The established method is also suitable for the determination of
other amine compds. in various biol. fluids.

ACCESSION NUMBER:
139:1785500 HCARBLUS

ACCESSION NUMBER:
132:148595

CORROBATE SOURCE: Lanzhou Inst. Chem. Phys., Chinese Academy of
Sciences, Lanchou, 730000, Peop. Rep. China
Analyst (Cambridge, United Kingdom) (1999), 124(12),
1755-1766

CORDEN: ANALAO, ISSN: 0003-2654

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 150321-96-3P

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST
(Analytical study); PREP (Preparation); USES (Uses)
(Characterization and application of acridine-9-N-acetyl-Nhydroxysuccinimide as a pre-column derivatization agent for
flu

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ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

Entered STN: 26 Mar 1996
The synthesis of 10,10'-substituted-9,9'-bisacridine mols. and their derivs. is disclosed. These mols. catalyze the production of light by chemiluminescence in the presence of a signal solution having at a pH from about 10.0 to about 14.0, at a concentration effective for producing a chemiluminescent signal, a chelating agent, a sulfoxide, a reducing sugar, and oxidant or combination of oxidants, an alc. and aqueous sodium tetraborate. These 10,10'-substituted-9,9'-biscridines are used alone or attached to haptens or macromols. and are utilized as labels in the preparation of chemiluminescent, homogeneous or heterogeneous assays. They are also used in conjunction with other chemiluminescent label mols. to produce multiple analyte chemiluminescent assays. An assay demonstrating the linearity of the signal with increasing dilns. of an anti-TSH-10,10'-paratoluo-9,9'-bisacridine conjugate is described.

SSION NUMBER: 1996:171871 HCAPLUS
MENT NUMBER: 124:225820
   ACCESSION NUMBER:
   DOCUMENT NUMBER:
TITLE:
                                                                                                     124:225820
Preparation of derivatized 10,10'-substituted-9,9'-bisacridine luminescent molecules and signal solutions Katsilometes, George W.
  INVENTOR (S):
                                                                                                     USA
PCT Int. Appl., 50 pp.
CODEN: PIXXD2
   PATENT ASSIGNEE(S):
SOURCE:
  DOCUMENT TYPE:
                                                                                                     Patent
                                                                                                     English
 FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                    PATENT NO.
                                                                                                     KIND
                                                                                                                            DATE
                                                                                                                                                                              APPLICATION NO.
                                                                                                                                                                                                                                                                            DATE
                 WO 9600392
W: CN, JP, KR

WU: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
EP 766925
R: AT, BE, CH, DE, DK, ES, FR, GB, FR, IE, IT, LI, LU, MC, NL, PT, SE
CN 1155931
A 19970730
CN 1995-194681
19950622
US 5866335
A 19990202
US 1994-767288
19961216
HK 1001416
A1 20050826
HY 1995-10291
19980114

PRITY APPLN. INFO::
US 1994-265481
RITY APPLN. INFO::
US 1994-265481
VO 1995-US7966
W 19950622
                    WO 9600392
                                                                                                    A1 19960104
                                                                                                                                                                             WO 1995-US7966
                                                                                                                                                                                                                                                                           19950622
PRIORITY APPLN. INFO.:
                   RE: ARC (Analytical reagent use); ANST (Analytical study); USES (Uses) (preparation of bisactidine luminescent derivs. and signal solns.) 174569-85-8 HCAPLUS.
9,9'-Bisactidinium, 10.10-bis[2-[(2.5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-dinitrate (9CI) (CA INDEX NAME)
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CM 1

CRN 174569-84-7 CMF C38 H28 N4 O8 L19 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

PAGE 1-A

PAGE 2-A

ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN INDEX NAME) (Continued)

ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN Entered STN: 23 Jul 1994

AB Fluorescent compds. useful in the determination of chloramphenicol acetyltransferase (CAT) enzyme activity are described. The compds. BASE-Ns-'X are fluorescent derivs. related in structure to chloramphenicol comprising a base (I), substituted at one to five aromatic ring positions by substituents, which may be the same or different, that are alkyl, hydroxy, alkoxy, aryl, halo, nitro, amino, alkylamido, or arylamido, and 0 < n < 6; and a fluorescent moiety 'X (nonreduced tricyclic difluoroboradiazaindacene fluorophore) linked to the terminal CH2 of BASE through a linker Ns (e.g., NH1X, NHSCH2'X). The substrate compds. are acylated in the presence of CAT to produce fluorescent mono- and diacylated products, which are then phys. separated from the reaction mixture and quantitated by means of their fluorescence and/or absorbance. Fluorescent, hodamine, coumarin, dimethylaminonaphthelenesulfonic acid (dansyl), pyrene, anthracene, nitrobenzoxadiazole (NBD), acridine and dipyrrometheneboron difluoride.

ACCESSION NUMBER: 1994:435864 HCAPLUS

DOCUMENT NUMBER: 121:35864

Fluorescent chloramphenicol derivatives for determination of chloramphenicol acetyltransferase activity

Halphland, Richard P.; Kang, Hee C.; Young, Steven L.; Melnet, Michael H.

PATENT ASSIGNEE(S): Molecular Probes, Inc., USA

OUSN: 1932: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

English 1 FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------|-----------|-------------------|----------|
| | | | | |
| US 5262545 | A | 19931116 | US 1991-722352 | 19910618 |
| US 5364764 | A | 19941115 | US 1992-994992 | 19921221 |
| PRIORITY APPLN. INFO.: | | | US 1989-321494 B1 | 19890309 |
| | | | US 1991-722352 A3 | 19910618 |
| OTHER SOURCE(S): | MARPAT | 121:35864 | | |

OTHER SOURCE(S): IT 150321-96-3

RL: RCT (Reactant): RACT (Reactant or reagent)
(fluorescent chloramphenicol derivs. for determination of chloramphenicol acetyltransferase activity) 321-96-3 HCAPLUS

150321-96-3 HCAPLUS
2,5-Pyrrolidinedione, 1-[[(9-oxo-10(9H)-acridinyl)acetyl]oxy]- (9CI) (CA

ED Entered STN: 05 Mar 1994

AB A photoluminometric immunomasmay comprises reacting 2 immunoreactants, 1
labeled with a photoluminescent energy transfer donor capable of
photoluminescence and the other labeled with a photoluminescent energy
transfer acceptor complementary to the donor; exciting the sample with
radiation; and calculating the apparent luminescence lifetime to determine the
presence of a reaction product. Studies were done using goat anti-mouse
1g6 labeled with the donor dichlorotricizinylaminofluorescein and mouse Ig6
labeled with the acceptor tetramethylchodamine isothiocyanate.

ACCESSION NUMBER: 1994:101282 HCAPLUS

DOCUMENT NUMBER: 120:101282
Fluorescent energy transfer immunomasmay
Lakowicz, Joseph; Malival, Badri; Thompson, Richard;
OZINSKAS, Alvydas

PATENT ASSIGNEE(S): University of Maryland, USA
EUC. Pat. Appl., 26 pp.

DOCUMENT TYPE: Patent
LANGUAGE: EPXXDW

PATENT INFORMATION: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE KIND APPLICATION NO. DATE

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L19 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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L19 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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COST IN U.S. DOLLARS
SINCE FILE TOTAL
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FULL ESTIMATED COST
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837.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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SESSION
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